



SEQUENCE LISTING

RECEIVED
AUG 29 2003
TECH CENTER 1600/2900

<110> Carulli, John P.
Little, Randall D.
Recker, Robert R.
Johnson, Mark L.

<120> REGULATING LIPID LEVELS VIA THE ZMAX1 OR HBM GENE

<130> 032796-019

<140> US 09/578,900

<141> 2000-05-26

<150> US 09/543,771

<151> 2000-04-05

<150> US 09/229,319

<151> 1999-01-13

<150> US 60/071,449

<151> 1998-01-13

<150> US 60/105,511

<151> 1998-10-23

<160> 641

<210> 1

<211> 5120

<212> DNA

<213> Homo sapiens

<400> 1

```
actaaagcgc cgccgcgcgc ccatggagcc cgagtgcgcg cggcgcgggc cegtccggcc      60
gccggacaac  atg gag gca gcg ccg ccc ggg ccg ccg tgg ccg ctg ctg      109
              Met Glu Ala Ala Pro Pro Gly Pro Pro Trp Pro Leu Leu
              1              5              10
ctg ctg ctg ctg ctg ctg ctg gcg ctg tgc ggc tgc ccg gcc ccc gcc      157
Leu Leu Leu Leu Leu Leu Leu Ala Leu Cys Gly Cys Pro Ala Pro Ala
15              20              25
gcg gcc tcg ccg ctc ctg cta ttt gcc aac cgc cgg gac gta cgg ctg      205
Ala Ala Ser Pro Leu Leu Leu Phe Ala Asn Arg Arg Asp Val Arg Leu
30              35              40              45
gtg gac gcc ggc gga gtc aag ctg gag tcc acc atc gtg gtc agc ggc      253
Val Asp Ala Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly
50              55              60
ctg gag gat gcg gcc gca gtg gac ttc cag ttt tcc aag gga gcc gtg      301
Leu Glu Asp Ala Ala Ala Val Asp Phe Gln Phe Ser Lys Gly Ala Val
```

65	70	75	
tac tgg aca gac gtg agc gag gag gcc atc aag cag acc tac ctg aac			349
Tyr Trp Thr Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn			
80	85	90	
cag acg ggg gcc gcc gtg cag aac gtg gtc atc tcc ggc ctg gtc tct			397
Gln Thr Gly Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser			
95	100	105	
ccc gac ggc ctc gcc tgc gac tgg gtg ggc aag aag ctg tac tgg acg			445
Pro Asp Gly Leu Ala Cys Asp Trp Val Gly Lys Lys Leu Tyr Trp Thr			
110	115	120	125
gac tca gag acc aac cgc atc gag gtg gcc aac ctc aat ggc aca tcc			493
Asp Ser Glu Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser			
130	135	140	
cgg aag gtg ctc ttc tgg cag gac ctt gac cag ccg agg gcc atc gcc			541
Arg Lys Val Leu Phe Trp Gln Asp Leu Asp Gln Pro Arg Ala Ile Ala			
145	150	155	
ttg gac ccc gct cac ggg tac atg tac tgg aca gac tgg ggt gag acg			589
Leu Asp Pro Ala His Gly Tyr Met Tyr Trp Thr Asp Trp Gly Glu Thr			
160	165	170	
ccc cgg att gag cgg gca ggg atg gat ggc agc acc cgg aag atc att			637
Pro Arg Ile Glu Arg Ala Gly Met Asp Gly Ser Thr Arg Lys Ile Ile			
175	180	185	
gtg gac tcg gac att tac tgg ccc aat gga ctg acc atc gac ctg gag			685
Val Asp Ser Asp Ile Tyr Trp Pro Asn Gly Leu Thr Ile Asp Leu Glu			
190	195	200	205
gag cag aag ctc tac tgg gct gac gcc aag ctc agc ttc atc cac cgt			733
Glu Gln Lys Leu Tyr Trp Ala Asp Ala Lys Leu Ser Phe Ile His Arg			
210	215	220	
gcc aac ctg gac ggc tcg ttc cgg cag aag gtg gtg gag ggc agc ctg			781
Ala Asn Leu Asp Gly Ser Phe Arg Gln Lys Val Val Glu Gly Ser Leu			
225	230	235	
acg cac ccc ttc gcc ctg acg ctc tcc ggg gac act ctg tac tgg aca			829
Thr His Pro Phe Ala Leu Thr Leu Ser Gly Asp Thr Leu Tyr Trp Thr			
240	245	250	
gac tgg cag acc cgc tcc atc cat gcc tgc aac aag cgc act ggg ggg			877
Asp Trp Gln Thr Arg Ser Ile His Ala Cys Asn Lys Arg Thr Gly Gly			
255	260	265	
aag agg aag gag atc ctg agt gcc ctc tac tca ccc atg gac atc cag			925
Lys Arg Lys Glu Ile Leu Ser Ala Leu Tyr Ser Pro Met Asp Ile Gln			
270	275	280	285
gtg ctg agc cag gag cgg cag cct ttc ttc cac act cgc tgt gag gag			973
Val Leu Ser Gln Glu Arg Gln Pro Phe Phe His Thr Arg Cys Glu Glu			
290	295	300	
gac aat ggc ggc tgc tcc cac ctg tgc ctg ctg tcc cca agc gag cct			1021
Asp Asn Gly Gly Cys Ser His Leu Cys Leu Leu Ser Pro Ser Glu Pro			
305	310	315	
ttc tac aca tgc gcc tgc ccc acg ggt gtg cag ctg cag gac aac ggc			1069
Phe Tyr Thr Cys Ala Cys Pro Thr Gly Val Gln Leu Gln Asp Asn Gly			
320	325	330	
agg acg tgt aag gca gga gcc gag gag gtg ctg ctg ctg gcc cgg cgg			1117
Arg Thr Cys Lys Ala Gly Ala Glu Glu Val Leu Leu Leu Ala Arg Arg			

335	340	345	
acg gac cta cgg agg atc tcg ctg gac acg ccg gac ttc acc gac atc			1165
Thr Asp Leu Arg Arg Ile Ser Leu Asp Thr Pro Asp Phe Thr Asp Ile			
350	355	360	365
gtg ctg cag gtg gac gac atc cgg cac gcc att gcc atc gac tac gac			1213
Val Leu Gln Val Asp Asp Ile Arg His Ala Ile Ala Ile Asp Tyr Asp			
370	375	380	
ccg cta gag ggc tat gtc tac tgg aca gat gac gag gtg cgg gcc atc			1261
Pro Leu Glu Gly Tyr Val Tyr Trp Thr Asp Asp Glu Val Arg Ala Ile			
385	390	395	
cgc agg gcg tac ctg gac ggg tct ggg gcg cag acg ctg gtc aac acc			1309
Arg Arg Ala Tyr Leu Asp Gly Ser Gly Ala Gln Thr Leu Val Asn Thr			
400	405	410	
gag atc aac gac ccc gat ggc atc gcg gtc gac tgg gtg gcc cga aac			1357
Glu Ile Asn Asp Pro Asp Gly Ile Ala Val Asp Trp Val Ala Arg Asn			
415	420	425	
ctc tac tgg acc gac acg ggc acg gac cgc atc gag gtg acg cgc ctc			1405
Leu Tyr Trp Thr Asp Thr Gly Thr Asp Arg Ile Glu Val Thr Arg Leu			
430	435	440	445
aac ggc acc tcc cgc aag atc ctg gtg tcg gag gac ctg gac gag ccc			1453
Asn Gly Thr Ser Arg Lys Ile Leu Val Ser Glu Asp Leu Asp Glu Pro			
450	455	460	
cga gcc atc gca ctg cac ccc gtg atg ggc ctc atg tac tgg aca gac			1501
Arg Ala Ile Ala Leu His Pro Val Met Gly Leu Met Tyr Trp Thr Asp			
465	470	475	
tgg gga gag aac cct aaa atc gag tgt gcc aac ttg gat ggg cag gag			1549
Trp Gly Glu Asn Pro Lys Ile Glu Cys Ala Asn Leu Asp Gly Gln Glu			
480	485	490	
cgg cgt gtg ctg gtc aat gcc tcc ctc ggg tgg ccc aac ggc ctg gcc			1597
Arg Arg Val Leu Val Asn Ala Ser Leu Gly Trp Pro Asn Gly Leu Ala			
495	500	505	
ctg gac ctg cag gag ggg aag ctc tac tgg gga gac gcc aag aca gac			1645
Leu Asp Leu Gln Glu Gly Lys Leu Tyr Trp Gly Asp Ala Lys Thr Asp			
510	515	520	525
aag atc gag gtg atc aat gtt gat ggg acg aag agg cgg acc ctc ctg			1693
Lys Ile Glu Val Ile Asn Val Asp Gly Thr Lys Arg Arg Thr Leu Leu			
530	535	540	
gag gac aag ctc ccg cac att ttc ggg ttc acg ctg ctg ggg gac ttc			1741
Glu Asp Lys Leu Pro His Ile Phe Gly Phe Thr Leu Leu Gly Asp Phe			
545	550	555	
atc tac tgg act gac tgg cag cgc cgc agc atc gag cgg gtg cac aag			1789
Ile Tyr Trp Thr Asp Trp Gln Arg Arg Ser Ile Glu Arg Val His Lys			
560	565	570	
gtc aag gcc agc cgg gac gtc atc att gac cag ctg ccc gac ctg atg			1837
Val Lys Ala Ser Arg Asp Val Ile Ile Asp Gln Leu Pro Asp Leu Met			
575	580	585	
ggg ctc aaa gct gtg aat gtg gcc aag gtc gtc gga acc aac ccg tgt			1885
Gly Leu Lys Ala Val Asn Val Ala Lys Val Val Gly Thr Asn Pro Cys			
590	595	600	605
gcg gac agg aac ggg ggg tgc agc cac ctg tgc ttc ttc aca ccc cac			1933
Ala Asp Arg Asn Gly Gly Cys Ser His Leu Cys Phe Phe Thr Pro His			

gca acc cgg tgt ggc tgc ccc atc ggc ctg gag ctg ctg agt gac atg	1981
Ala Thr Arg Cys Gly Cys Pro Ile Gly Leu Glu Leu Leu Ser Asp Met	
610 625 630 635	
aag acc tgc atc gtg cct gag gcc ttc ttg gtc ttc acc agc aga gcc	2029
Lys Thr Cys Ile Val Pro Glu Ala Phe Leu Val Phe Thr Ser Arg Ala	
640 645 650	
gcc atc cac agg atc tcc ctc gag acc aat aac aac gac gtg gcc atc	2077
Ala Ile His Arg Ile Ser Leu Glu Thr Asn Asn Asn Asp Val Ala Ile	
655 660 665	
ccg ctc acg ggc gtc aag gag gcc tca gcc ctg gac ttt gat gtg tcc	2125
Pro Leu Thr Gly Val Lys Glu Ala Ser Ala Leu Asp Phe Asp Val Ser	
670 675 680 685	
aac aac cac atc tac tgg aca gac gtc agc ctg aag acc atc agc cgc	2173
Asn Asn His Ile Tyr Trp Thr Asp Val Ser Leu Lys Thr Ile Ser Arg	
690 695 700	
gcc ttc atg aac ggg agc tgc gtg gag cac gtg gtg gag ttt ggc ctt	2221
Ala Phe Met Asn Gly Ser Ser Val Glu His Val Val Glu Phe Gly Leu	
705 710 715	
gac tac ccc gag ggc atg gcc gtt gac tgg atg ggc aag aac ctc tac	2269
Asp Tyr Pro Glu Gly Met Ala Val Asp Trp Met Gly Lys Asn Leu Tyr	
720 725 730	
tgg gcc gac act ggg acc aac aga atc gaa gtg gcg cgg ctg gac ggg	2317
Trp Ala Asp Thr Gly Thr Asn Arg Ile Glu Val Ala Arg Leu Asp Gly	
735 740 745	
cag ttc cgg caa gtc ctc gtg tgg agg gac ttg gac aac ccg agg tgc	2365
Gln Phe Arg Gln Val Leu Val Trp Arg Asp Leu Asp Asn Pro Arg Ser	
750 755 760 765	
ctg gcc ctg gat ccc acc aag ggc tac atc tac tgg acc gag tgg ggc	2413
Leu Ala Leu Asp Pro Thr Lys Gly Tyr Ile Tyr Trp Thr Glu Trp Gly	
770 775 780	
ggc aag ccg agg atc gtg cgg gcc ttc atg gac ggg acc aac tgc atg	2461
Gly Lys Pro Arg Ile Val Arg Ala Phe Met Asp Gly Thr Asn Cys Met	
785 790 795	
acg ctg gtg gac aag gtg ggc cgg gcc aac gac ctc acc att gac tac	2509
Thr Leu Val Asp Lys Val Gly Arg Ala Asn Asp Leu Thr Ile Asp Tyr	
800 805 810	
gct gac cag cgc ctc tac tgg acc gac ctg gac acc aac atg atc gag	2557
Ala Asp Gln Arg Leu Tyr Trp Thr Asp Leu Asp Thr Asn Met Ile Glu	
815 820 825	
tcg tcc aac atg ctg ggt cag gag cgg gtc gtg att gcc gac gat ctc	2605
Ser Ser Asn Met Leu Gly Gln Glu Arg Val Val Ile Ala Asp Asp Leu	
830 835 840 845	
ccg cac ccg ttc ggt ctg acg cag tac agc gat tat atc tac tgg aca	2653
Pro His Pro Phe Gly Leu Thr Gln Tyr Ser Asp Tyr Ile Tyr Trp Thr	
850 855 860	
gac tgg aat ctg cac agc att gag cgg gcc gac aag act agc ggc cgg	2701
Asp Trp Asn Leu His Ser Ile Glu Arg Ala Asp Lys Thr Ser Gly Arg	
865 870 875	
aac cgc acc ctc atc cag ggc cac ctg gac ttc gtg atg gac atc ctg	2749
Asn Arg Thr Leu Ile Gln Gly His Leu Asp Phe Val Met Asp Ile Leu	

880	885	890	
gtg ttc cac tcc tcc cgc cag gat ggc ctc aat gac tgt atg cac aac			2797
Val Phe His Ser Ser Arg Gln Asp Gly Leu Asn Asp Cys Met His Asn			
895	900	905	
aac ggg cag tgt ggg cag ctg tgc ctt gcc atc ccc ggc ggc cac cgc			2845
Asn Gly Gln Cys Gly Gln Leu Cys Leu Ala Ile Pro Gly Gly His Arg			
910	915	920	925
tgc ggc tgc gcc tca cac tac acc ctg gac ccc agc agc cgc aac tgc			2893
Cys Gly Cys Ala Ser His Tyr Thr Leu Asp Pro Ser Ser Arg Asn Cys			
930	935	940	
agc ccg ccc acc acc ttc ttg ctg ttc agc cag aaa tct gcc atc agt			2941
Ser Pro Pro Thr Thr Phe Leu Leu Phe Ser Gln Lys Ser Ala Ile Ser			
945	950	955	
cgg atg atc ccg gac gac cag cac agc ccg gat ctc atc ctg ccc ctg			2989
Arg Met Ile Pro Asp Asp Gln His Ser Pro Asp Leu Ile Leu Pro Leu			
960	965	970	
cat gga ctg agg aac gtc aaa gcc atc gac tat gac cca ctg gac aag			3037
His Gly Leu Arg Asn Val Lys Ala Ile Asp Tyr Asp Pro Leu Asp Lys			
975	980	985	
ttc atc tac tgg gtg gat ggg cgc cag aac atc aag cga gcc aag gac			3085
Phe Ile Tyr Trp Val Asp Gly Arg Gln Asn Ile Lys Arg Ala Lys Asp			
990	995	1000	1005
gac ggg acc cag ccc ttt gtt ttg acc tct ctg agc caa ggc caa aac			3133
Asp Gly Thr Gln Pro Phe Val Leu Thr Ser Leu Ser Gln Gly Gln Asn			
1010	1015	1020	
cca gac agg cag ccc cac gac ctc agc atc gac atc tac agc cgg aca			3181
Pro Asp Arg Gln Pro His Asp Leu Ser Ile Asp Ile Tyr Ser Arg Thr			
1025	1030	1035	
ctg ttc tgg acg tgc gag gcc acc aat acc atc aac gtc cac agg ctg			3229
Leu Phe Trp Thr Cys Glu Ala Thr Asn Thr Ile Asn Val His Arg Leu			
1040	1045	1050	
agc ggg gaa gcc atg ggg gtg gtg ctg cgt ggg gac cgc gac aag ccc			3277
Ser Gly Glu Ala Met Gly Val Val Leu Arg Gly Asp Arg Asp Lys Pro			
1055	1060	1065	
agg gcc atc gtc gtc aac gcg gag cga ggg tac ctg tac ttc acc aac			3325
Arg Ala Ile Val Val Asn Ala Glu Arg Gly Tyr Leu Tyr Phe Thr Asn			
1070	1075	1080	1085
atg cag gac cgg gca gcc aag atc gaa cgc gca gcc ctg gac ggc acc			3373
Met Gln Asp Arg Ala Ala Lys Ile Glu Arg Ala Ala Leu Asp Gly Thr			
1090	1095	1100	
gag cgc gag gtc ctc ttc acc acc ggc ctc atc cgc cct gtg gcc ctg			3421
Glu Arg Glu Val Leu Phe Thr Thr Gly Leu Ile Arg Pro Val Ala Leu			
1105	1110	1115	
gtg gtg gac aac aca ctg ggc aag ctg ttc tgg gtg gac gcg gac ctg			3469
Val Val Asp Asn Thr Leu Gly Lys Leu Phe Trp Val Asp Ala Asp Leu			
1120	1125	1130	
aag cgc att gag agc tgt gac ctg tca ggg gcc aac cgc ctg acc ctg			3517
Lys Arg Ile Glu Ser Cys Asp Leu Ser Gly Ala Asn Arg Leu Thr Leu			
1135	1140	1145	
gag gac gcc aac atc gtg cag cct ctg ggc ctg acc atc ctt ggc aag			3565
Glu Asp Ala Asn Ile Val Gln Pro Leu Gly Leu Thr Ile Leu Gly Lys			

1150	1155	1160	1165	
cat ctc tac tgg atc gac cgc cag cag cag atg atc gag cgt gtg gag				3613
His Leu Tyr Trp Ile Asp Arg Gln Gln Gln Met Ile Glu Arg Val Glu				
	1170	1175	1180	
aag acc acc ggg gac aag cgg act cgc atc cag ggc cgt gtc gcc cac				3661
Lys Thr Thr Gly Asp Lys Arg Thr Arg Ile Gln Gly Arg Val Ala His				
	1185	1190	1195	
ctc act ggc atc cat gca gtg gag gaa gtc agc ctg gag gag ttc tca				3709
Leu Thr Gly Ile His Ala Val Glu Glu Val Ser Leu Glu Glu Phe Ser				
	1200	1205	1210	
gcc cac cca tgt gcc cgt gac aat ggt ggc tgc tcc cac atc tgt att				3757
Ala His Pro Cys Ala Arg Asp Asn Gly Gly Cys Ser His Ile Cys Ile				
	1215	1220	1225	
gcc aag ggt gat ggg aca cca cgg tgc tca tgc cca gtc cac ctc gtg				3805
Ala Lys Gly Asp Gly Thr Pro Arg Cys Ser Cys Pro Val His Leu Val				
	1230	1235	1240	1245
ctc ctg cag aac ctg ctg acc tgt gga gag ccg ccc acc tgc tcc ccg				3853
Leu Leu Gln Asn Leu Leu Thr Cys Gly Glu Pro Pro Thr Cys Ser Pro				
	1250	1255	1260	
gac cag ttt gca tgt gcc aca ggg gag atc gac tgt atc ccc ggg gcc				3901
Asp Gln Phe Ala Cys Ala Thr Gly Glu Ile Asp Cys Ile Pro Gly Ala				
	1265	1270	1275	
tgg cgc tgt gac ggc ttt ccc gag tgc gat gac cag agc gac gag gag				3949
Trp Arg Cys Asp Gly Phe Pro Glu Cys Asp Asp Gln Ser Asp Glu Glu				
	1280	1285	1290	
ggc tgc ccc gtg tgc tcc gcc gcc cag ttc ccc tgc gcg cgg ggt cag				3997
Gly Cys Pro Val Cys Ser Ala Ala Gln Phe Pro Cys Ala Arg Gly Gln				
	1295	1300	1305	
tgt gtg gac ctg cgc ctg cgc tgc gac ggc gag gca gac tgt cag gac				4045
Cys Val Asp Leu Arg Leu Arg Cys Asp Gly Glu Ala Asp Cys Gln Asp				
	1310	1315	1320	1325
cgc tca gac gag gtg gac tgt gac gcc atc tgc ctg ccc aac cag ttc				4093
Arg Ser Asp Glu Val Asp Cys Asp Ala Ile Cys Leu Pro Asn Gln Phe				
	1330	1335	1340	
cgg tgt gcg agc ggc cag tgt gtc ctc atc aaa cag cag tgc gac tcc				4141
Arg Cys Ala Ser Gly Gln Cys Val Leu Ile Lys Gln Gln Cys Asp Ser				
	1345	1350	1355	
ttc ccc gac tgt atc gac ggc tcc gac gag ctc atg tgt gaa atc acc				4189
Phe Pro Asp Cys Ile Asp Gly Ser Asp Glu Leu Met Cys Glu Ile Thr				
	1360	1365	1370	
aag ccg ccc tca gac gac agc ccg gcc cac agc agt gcc atc ggg ccc				4237
Lys Pro Pro Ser Asp Asp Ser Pro Ala His Ser Ser Ala Ile Gly Pro				
	1375	1380	1385	
gtc att ggc atc atc ctc tct ctc ttc gtc atg ggt ggt gtc tat ttt				4285
Val Ile Gly Ile Ile Leu Ser Leu Phe Val Met Gly Gly Val Tyr Phe				
	1390	1395	1400	1405
gtg tgc cag cgc gtg gtg tgc cag cgc tat gcg ggg gcc aac ggg ccc				4333
Val Cys Gln Arg Val Val Cys Gln Arg Tyr Ala Gly Ala Asn Gly Pro				
	1410	1415	1420	
ttc ccg cac gag tat gtc agc ggg acc ccg cac gtg ccc ctc aat ttc				4381
Phe Pro His Glu Tyr Val Ser Gly Thr Pro His Val Pro Leu Asn Phe				

1425	1430	1435	
ata gcc ccg ggc ggt tcc cag cat ggc ccc ttc aca ggc atc gca tgc			4429
Ile Ala Pro Gly Gly Ser Gln His Gly Pro Phe Thr Gly Ile Ala Cys			
1440	1445	1450	
gga aag tcc atg atg agc tcc gtg agc ctg atg ggg ggc cgg ggc ggg			4477
Gly Lys Ser Met Met Ser Ser Val Ser Leu Met Gly Gly Arg Gly Gly			
1455	1460	1465	
gtg ccc ctc tac gac cgg aac cac gtc aca ggg gcc tcg tcc agc agc			4525
Val Pro Leu Tyr Asp Arg Asn His Val Thr Gly Ala Ser Ser Ser Ser			
1470	1475	1480	1485
tcg tcc agc acg aag gcc acg ctg tac ccg ccg atc ctg aac ccg ccg			4573
Ser Ser Ser Thr Lys Ala Thr Leu Tyr Pro Pro Ile Leu Asn Pro Pro			
1490	1495	1500	
ccc tcc ccg gcc acg gac ccc tcc ctg tac aac atg gac atg ttc tac			4621
Pro Ser Pro Ala Thr Asp Pro Ser Leu Tyr Asn Met Asp Met Phe Tyr			
1505	1510	1515	
tct tca aac att ccg gcc act gcg aga ccg tac agg ccc tac atc att			4669
Ser Ser Asn Ile Pro Ala Thr Ala Arg Pro Tyr Arg Pro Tyr Ile Ile			
1520	1525	1530	
cga gga atg gcg ccc ccg acg acg ccc tgc agc acc gac gtg tgt gac			4717
Arg Gly Met Ala Pro Pro Thr Thr Pro Cys Ser Thr Asp Val Cys Asp			
1535	1540	1545	
agc gac tac agc gcc agc cgc tgg aag gcc agc aag tac tac ctg gat			4765
Ser Asp Tyr Ser Ala Ser Arg Trp Lys Ala Ser Lys Tyr Tyr Leu Asp			
1550	1555	1560	1565
ttg aac tcg gac tca gac ccc tat cca ccc cca ccc acg ccc cac agc			4813
Leu Asn Ser Asp Ser Asp Pro Tyr Pro Pro Pro Pro Thr Pro His Ser			
1570	1575	1580	
cag tac ctg tcg gcg gag gac agc tgc ccg ccc tcg ccc gcc acc gag			4861
Gln Tyr Leu Ser Ala Glu Asp Ser Cys Pro Pro Ser Pro Ala Thr Glu			
1585	1590	1595	
agg agc tac ttc cat ctc ttc ccg ccc cct ccg tcc ccc tgc acg gac			4909
Arg Ser Tyr Phe His Leu Phe Pro Pro Pro Pro Ser Pro Cys Thr Asp			
1600	1605	1610	
tca tcc tgacctcggc cgggccactc tggcttctct gtgccctgt aaatagtttt			4965
Ser Ser			
1615			
aaatatgaac aaagaaaaaa atatatttta tgatttaaaa aataaatata attgggattt			5025
taaaaacatg agaaatgtga actgtgatgg ggtgggcagg gctgggagaa ctttgtacag			5085
tggagaaata tttataaaact taattttgta aaaca			5120
<210> 2			
<211> 5120			
<212> DNA			
<213> Homo sapiens			
<400> 2			
actaaagcgc cgccgcgcgc ccatggagcc cgagtgcgcg cgccgcgggc ccgtccggcc			60
gccggacaac atg gag gca gcg ccg ccc ggg ccg ccg tgg ccg ctg ctg			109
Met Glu Ala Ala Pro Pro Gly Pro Pro Trp Pro Leu Leu			
1	5	10	

ctg ctg ctg ctg ctg ctg ctg gcg ctg tgc ggc tgc ccg gcc ccc gcc	157
Leu Leu Leu Leu Leu Leu Leu Ala Leu Cys Gly Cys Pro Ala Pro Ala	
15 20 25	
gcg gcc tcg ccg ctc ctg cta ttt gcc aac cgc cgg gac gta cgg ctg	205
Ala Ala Ser Pro Leu Leu Leu Phe Ala Asn Arg Arg Asp Val Arg Leu	
30 35 40 45	
gtg gac gcc ggc gga gtc aag ctg gag tcc acc atc gtg gtc agc ggc	253
Val Asp Ala Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly	
50 55 60	
ctg gag gat gcg gcc gca gtg gac ttc cag ttt tcc aag gga gcc gtg	301
Leu Glu Asp Ala Ala Ala Val Asp Phe Gln Phe Ser Lys Gly Ala Val	
65 70 75	
tac tgg aca gac gtg agc gag gag gcc atc aag cag acc tac ctg aac	349
Tyr Trp Thr Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn	
80 85 90	
cag acg ggg gcc gcc gtg cag aac gtg gtc atc tcc ggc ctg gtc tct	397
Gln Thr Gly Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser	
95 100 105	
ccc gac ggc ctc gcc tgc gac tgg gtg ggc aag aag ctg tac tgg acg	445
Pro Asp Gly Leu Ala Cys Asp Trp Val Gly Lys Lys Leu Tyr Trp Thr	
110 115 120 125	
gac tca gag acc aac cgc atc gag gtg gcc aac ctc aat ggc aca tcc	493
Asp Ser Glu Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser	
130 135 140	
cgg aag gtg ctc ttc tgg cag gac ctt gac cag ccg agg gcc atc gcc	541
Arg Lys Val Leu Phe Trp Gln Asp Leu Asp Gln Pro Arg Ala Ile Ala	
145 150 155	
ttg gac ccc gct cac ggg tac atg tac tgg aca gac tgg gtt gag acg	589
Leu Asp Pro Ala His Gly Tyr Met Tyr Trp Thr Asp Trp Val Glu Thr	
160 165 170	
ccc cgg att gag cgg gca ggg atg gat ggc agc acc cgg aag atc att	637
Pro Arg Ile Glu Arg Ala Met Asp Gly Ser Thr Arg Lys Ile Ile	
175 180 185	
gtg gac tcg gac att tac tgg ccc aat gga ctg acc atc gac ctg gag	685
Val Asp Ser Asp Ile Tyr Trp Pro Asn Gly Leu Thr Ile Asp Leu Glu	
190 195 200 205	
gag cag aag ctc tac tgg gct gac gcc aag ctc agc ttc atc cac cgt	733
Glu Gln Lys Leu Tyr Trp Ala Asp Ala Lys Leu Ser Phe Ile His Arg	
210 215 220	
gcc aac ctg gac ggc tcg ttc cgg cag aag gtg gtg gag ggc agc ctg	781
Ala Asn Leu Asp Gly Ser Phe Arg Gln Lys Val Val Glu Gly Ser Leu	
225 230 235	
acg cac ccc ttc gcc ctg acg ctc tcc ggg gac act ctg tac tgg aca	829
Thr His Pro Phe Ala Leu Thr Leu Ser Gly Asp Thr Leu Tyr Trp Thr	
240 245 250	
gac tgg cag acc cgc tcc atc cat gcc tgc aac aag cgc act ggg ggg	877
Asp Trp Gln Thr Arg Ser Ile His Ala Cys Asn Lys Arg Thr Gly Gly	
255 260 265	
aag agg aag gag atc ctg agt gcc ctc tac tca ccc atg gac atc cag	925
Lys Arg Lys Glu Ile Leu Ser Ala Leu Tyr Ser Pro Met Asp Ile Gln	
270 275 280 285	

gtg ctg agc cag gag cgg cag cct ttc ttc cac act cgc tgt gag gag	973
Val Leu Ser Gln Glu Arg Gln Pro Phe Phe His Thr Arg Cys Glu Glu	
290 295 300	
gac aat ggc ggc tgc tcc cac ctg tgc ctg ctg tcc cca agc gag cct	1021
Asp Asn Gly Gly Cys Ser His Leu Cys Leu Leu Ser Pro Ser Glu Pro	
305 310 315	
ttc tac aca tgc gcc tgc ccc acg ggt gtg cag ctg cag gac aac ggc	1069
Phe Tyr Thr Cys Ala Cys Pro Thr Gly Val Gln Leu Gln Asp Asn Gly	
320 325 330	
agg acg tgt aag gca gga gcc gag gag gtg ctg ctg ctg gcc cgg cgg	1117
Arg Thr Cys Lys Ala Gly Ala Glu Glu Val Leu Leu Leu Ala Arg Arg	
335 340 345	
acg gac cta cgg agg atc tgc ctg gac acg ccg gac ttc acc gac atc	1165
Thr Asp Leu Arg Arg Ile Ser Leu Asp Thr Pro Asp Phe Thr Asp Ile	
350 355 360 365	
gtg ctg cag gtg gac gac atc cgg cac gcc att gcc atc gac tac gac	1213
Val Leu Gln Val Asp Asp Ile Arg His Ala Ile Ala Ile Asp Tyr Asp	
370 375 380	
ccg cta gag ggc tat gtc tac tgg aca gat gac gag gtg cgg gcc atc	1261
Pro Leu Glu Gly Tyr Val Tyr Trp Thr Asp Asp Glu Val Arg Ala Ile	
385 390 395	
cgc agg gcg tac ctg gac ggg tct ggg gcg cag acg ctg gtc aac acc	1309
Arg Arg Ala Tyr Leu Asp Gly Ser Gly Ala Gln Thr Leu Val Asn Thr	
400 405 410	
gag atc aac gac ccc gat ggc atc gcg gtc gac tgg gtg gcc cga aac	1357
Glu Ile Asn Asp Pro Asp Gly Ile Ala Val Asp Trp Val Ala Arg Asn	
415 420 425	
ctc tac tgg acc gac acg ggc acg gac cgc atc gag gtg acg cgc ctc	1405
Leu Tyr Trp Thr Asp Thr Gly Thr Asp Arg Ile Glu Val Thr Arg Leu	
430 435 440 445	
aac ggc acc tcc cgc aag atc ctg gtg tgc gag gac ctg gac gag ccc	1453
Asn Gly Thr Ser Arg Lys Ile Leu Val Ser Glu Asp Leu Asp Glu Pro	
450 455 460	
cga gcc atc gca ctg cac ccc gtg atg ggc ctc atg tac tgg aca gac	1501
Arg Ala Ile Ala Leu His Pro Val Met Gly Leu Met Tyr Trp Thr Asp	
465 470 475	
tgg gga gag aac cct aaa atc gag tgt gcc aac ttg gat ggg cag gag	1549
Trp Gly Glu Asn Pro Lys Ile Glu Cys Ala Asn Leu Asp Gly Gln Glu	
480 485 490	
cgg cgt gtg ctg gtc aat gcc tcc ctc ggg tgg ccc aac ggc ctg gcc	1597
Arg Arg Val Leu Val Asn Ala Ser Leu Gly Trp Pro Asn Gly Leu Ala	
495 500 505	
ctg gac ctg cag gag ggg aag ctc tac tgg gga gac gcc aag aca gac	1645
Leu Asp Leu Gln Glu Gly Lys Leu Tyr Trp Gly Asp Ala Lys Thr Asp	
510 515 520 525	
aag atc gag gtg atc aat gtt gat ggg acg aag agg cgg acc ctc ctg	1693
Lys Ile Glu Val Ile Asn Val Asp Gly Thr Lys Arg Arg Thr Leu Leu	
530 535 540	
gag gac aag ctc ccg cac att ttc ggg ttc acg ctg ctg ggg gac ttc	1741
Glu Asp Lys Leu Pro His Ile Phe Gly Phe Thr Leu Leu Gly Asp Phe	
545 550 555	

atc tac tgg act gac tgg cag cgc cgc agc atc gag cgg gtg cac aag	1789
Ile Tyr Trp Thr Asp Trp Gln Arg Arg Ser Ile Glu Arg Val His Lys	
560 565 570	
gtc aag gcc agc cgg gac gtc atc att gac cag ctg ccc gac ctg atg	1837
Val Lys Ala Ser Arg Asp Val Ile Ile Asp Gln Leu Pro Asp Leu Met	
575 580 585	
ggg ctc aaa gct gtg aat gtg gcc aag gtc gtc gga acc aac ccg tgt	1885
Gly Leu Lys Ala Val Asn Val Ala Lys Val Val Gly Thr Asn Pro Cys	
590 595 600 605	
gcg gac agg aac ggg ggg tgc agc cac ctg tgc ttc ttc aca ccc cac	1933
Ala Asp Arg Asn Gly Gly Cys Ser His Leu Cys Phe Phe Thr Pro His	
610 615 620	
gca acc cgg tgt ggc tgc ccc atc ggc ctg gag ctg ctg agt gac atg	1981
Ala Thr Arg Cys Gly Cys Pro Ile Gly Leu Glu Leu Leu Ser Asp Met	
625 630 635	
aag acc tgc atc gtg cct gag gcc ttc ttg gtc ttc acc agc aga gcc	2029
Lys Thr Cys Ile Val Pro Glu Ala Phe Leu Val Phe Thr Ser Arg Ala	
640 645 650	
gcc atc cac agg atc tcc ctc gag acc aat aac aac gac gtg gcc atc	2077
Ala Ile His Arg Ile Ser Leu Glu Thr Asn Asn Asn Asp Val Ala Ile	
655 660 665	
ccg ctc acg ggc gtc aag gag gcc tca gcc ctg gac ttt gat gtg tcc	2125
Pro Leu Thr Gly Val Lys Glu Ala Ser Ala Leu Asp Phe Asp Val Ser	
670 675 680 685	
aac aac cac atc tac tgg aca gac gtc agc ctg aag acc atc agc cgc	2173
Asn Asn His Ile Tyr Trp Thr Asp Val Ser Leu Lys Thr Ile Ser Arg	
690 695 700	
gcc ttc atg aac ggg agc tcg gtg gag cac gtg gtg gag ttt ggc ctt	2221
Ala Phe Met Asn Gly Ser Ser Val Glu His Val Val Glu Phe Gly Leu	
705 710 715	
gac tac ccc gag ggc atg gcc gtt gac tgg atg ggc aag aac ctc tac	2269
Asp Tyr Pro Glu Gly Met Ala Val Asp Trp Met Gly Lys Asn Leu Tyr	
720 725 730	
tgg gcc gac act ggg acc aac aga atc gaa gtg gcg cgg ctg gac ggg	2317
Trp Ala Asp Thr Gly Thr Asn Arg Ile Glu Val Ala Arg Leu Asp Gly	
735 740 745	
cag ttc cgg caa gtc ctc gtg tgg agg gac ttg gac aac ccg agg tcg	2365
Gln Phe Arg Gln Val Leu Val Trp Arg Asp Leu Asp Asn Pro Arg Ser	
750 755 760 765	
ctg gcc ctg gat ccc acc aag ggc tac atc tac tgg acc gag tgg ggc	2413
Leu Ala Leu Asp Pro Thr Lys Gly Tyr Ile Tyr Trp Thr Glu Trp Gly	
770 775 780	
ggc aag ccg agg atc gtg cgg gcc ttc atg gac ggg acc aac tgc atg	2461
Gly Lys Pro Arg Ile Val Arg Ala Phe Met Asp Gly Thr Asn Cys Met	
785 790 795	
acg ctg gtg gac aag gtg ggc cgg gcc aac gac ctc acc att gac tac	2509
Thr Leu Val Asp Lys Val Gly Arg Ala Asn Asp Leu Thr Ile Asp Tyr	
800 805 810	
gct gac cag cgc ctc tac tgg acc gac ctg gac acc aac atg atc gag	2557
Ala Asp Gln Arg Leu Tyr Trp Thr Asp Leu Asp Thr Asn Met Ile Glu	
815 820 825	

tcg tcc aac atg ctg ggt cag gag cgg gtc gtg att gcc gac gat ctc	2605
Ser Ser Asn Met Leu Gly Gln Glu Arg Val Val Ile Ala Asp Asp Leu	
830 835 840 845	
ccg cac ccg ttc ggt ctg acg cag tac agc gat tat atc tac tgg aca	2653
Pro His Pro Phe Gly Leu Thr Gln Tyr Ser Asp Tyr Ile Tyr Trp Thr	
850 855 860	
gac tgg aat ctg cac agc att gag cgg gcc gac aag act agc ggc cgg	2701
Asp Trp Asn Leu His Ser Ile Glu Arg Ala Asp Lys Thr Ser Gly Arg	
865 870 875	
aac cgc acc ctc atc cag ggc cac ctg gac ttc gtg atg gac atc ctg	2749
Asn Arg Thr Leu Ile Gln Gly His Leu Asp Phe Val Met Asp Ile Leu	
880 885 890	
gtg ttc cac tcc tcc cgc cag gat ggc ctc aat gac tgt atg cac aac	2797
Val Phe His Ser Ser Arg Gln Asp Gly Leu Asn Asp Cys Met His Asn	
895 900 905	
aac ggg cag tgt ggg cag ctg tgc ctt gcc atc ccc ggc ggc cac cgc	2845
Asn Gly Gln Cys Gly Gln Leu Cys Leu Ala Ile Pro Gly Gly His Arg	
910 915 920 925	
tgc ggc tgc gcc tca cac tac acc ctg gac ccc agc agc cgc aac tgc	2893
Cys Gly Cys Ala Ser His Tyr Thr Leu Asp Pro Ser Ser Arg Asn Cys	
930 935 940	
agc ccg ccc acc ttc ttg ctg ttc agc cag aaa tct gcc atc agt	2941
Ser Pro Pro Thr Phe Leu Leu Phe Ser Gln Lys Ser Ala Ile Ser	
945 950 955	
cgg atg atc ccg gac gac cag cac agc ccg gat ctc atc ctg ccc ctg	2989
Arg Met Ile Pro Asp Asp Gln His Ser Pro Asp Leu Ile Leu Pro Leu	
960 965 970	
cat gga ctg agg aac gtc aaa gcc atc gac tat gac cca ctg gac aag	3037
His Gly Leu Arg Asn Val Lys Ala Ile Asp Tyr Asp Pro Leu Asp Lys	
975 980 985	
ttc atc tac tgg gtg gat ggg cgc cag aac atc aag cga gcc aag gac	3085
Phe Ile Tyr Trp Val Asp Gly Arg Gln Asn Ile Lys Arg Ala Lys Asp	
990 995 1000 1005	
gac ggg acc cag ccc ttt gtt ttg acc tct ctg agc caa ggc caa aac	3133
Asp Gly Thr Gln Pro Phe Val Leu Thr Ser Leu Ser Gln Gly Gln Asn	
1010 1015 1020	
cca gac agg cag ccc cac gac ctc agc atc gac atc tac agc cgg aca	3181
Pro Asp Arg Gln Pro His Asp Leu Ser Ile Asp Ile Tyr Ser Arg Thr	
1025 1030 1035	
ctg ttc tgg acg tgc gag gcc acc aat acc atc aac gtc cac agg ctg	3229
Leu Phe Trp Thr Cys Glu Ala Thr Asn Thr Ile Asn Val His Arg Leu	
1040 1045 1050	
agc ggg gaa gcc atg ggg gtg gtg ctg cgt ggg gac cgc gac aag ccc	3277
Ser Gly Glu Ala Met Gly Val Val Leu Arg Gly Asp Arg Asp Lys Pro	
1055 1060 1065	
agg gcc atc gtc gtc aac gcg gag cga ggg tac ctg tac ttc acc aac	3325
Arg Ala Ile Val Val Asn Ala Glu Arg Gly Tyr Leu Tyr Phe Thr Asn	
1070 1075 1080 1085	
atg cag gac cgg gca gcc aag atc gaa cgc gca gcc ctg gac ggc acc	3373
Met Gln Asp Arg Ala Ala Lys Ile Glu Arg Ala Ala Leu Asp Gly Thr	
1090 1095 1100	

gag cgc gag gtc ctc ttc acc acc ggc ctc atc cgc cct gtg gcc ctg	3421
Glu Arg Glu Val Leu Phe Thr Thr Gly Leu Ile Arg Pro Val Ala Leu	
1105 1110 1115	
gtg gtg gac aac aca ctg ggc aag ctg ttc tgg gtg gac gcg gac ctg	3469
Val Val Asp Asn Thr Leu Gly Lys Leu Phe Trp Val Asp Ala Asp Leu	
1120 1125 1130	
aag cgc att gag agc tgt gac ctg tca ggg gcc aac cgc ctg acc ctg	3517
Lys Arg Ile Glu Ser Cys Asp Leu Ser Gly Ala Asn Arg Leu Thr Leu	
1135 1140 1145	
gag gac gcc aac atc gtg cag cct ctg ggc ctg acc atc ctt ggc aag	3565
Glu Asp Ala Asn Ile Val Gln Pro Leu Gly Leu Thr Ile Leu Gly Lys	
1150 1155 1160 1165	
cat ctc tac tgg atc gac cgc cag cag cag atg atc gag cgt gtg gag	3613
His Leu Tyr Trp Ile Asp Arg Gln Gln Gln Met Ile Glu Arg Val Glu	
1170 1175 1180	
aag acc acc ggg gac aag cgg act cgc atc cag ggc cgt gtc gcc cac	3661
Lys Thr Thr Gly Asp Lys Arg Thr Arg Ile Gln Gly Arg Val Ala His	
1185 1190 1195	
ctc act ggc atc cat gca gtg gag gaa gtc agc ctg gag gag ttc tca	3709
Leu Thr Gly Ile His Ala Val Glu Glu Val Ser Leu Glu Glu Phe Ser	
1200 1205 1210	
gcc cac cca tgt gcc cgt gac aat ggt ggc tgc tcc cac atc tgt att	3757
Ala His Pro Cys Ala Arg Asp Asn Gly Gly Cys Ser His Ile Cys Ile	
1215 1220 1225	
gcc aag ggt gat ggg aca cca cgg tgc tca tgc cca gtc cac ctc gtg	3805
Ala Lys Gly Asp Gly Thr Pro Arg Cys Ser Cys Pro Val His Leu Val	
1230 1235 1240 1245	
ctc ctg cag aac ctg ctg acc tgt gga gag ccg ccc acc tgc tcc ccg	3853
Leu Leu Gln Asn Leu Leu Thr Cys Gly Glu Pro Pro Thr Cys Ser Pro	
1250 1255 1260	
gac cag ttt gca tgt gcc aca ggg gag atc gac tgt atc ccc ggg gcc	3901
Asp Gln Phe Ala Cys Ala Thr Gly Glu Ile Asp Cys Ile Pro Gly Ala	
1265 1270 1275	
tgg cgc tgt gac ggc ttt ccc gag tgc gat gac cag agc gac gag gag	3949
Trp Arg Cys Asp Gly Phe Pro Glu Cys Asp Asp Gln Ser Asp Glu Glu	
1280 1285 1290	
ggc tgc ccc gtg tgc tcc gcc gcc cag ttc ccc tgc gcg cgg ggt cag	3997
Gly Cys Pro Val Cys Ser Ala Ala Gln Phe Pro Cys Ala Arg Gly Gln	
1295 1300 1305	
tgt gtg gac ctg cgc ctg cgc tgc gac ggc gag gca gac tgt cag gac	4045
Cys Val Asp Leu Arg Leu Arg Cys Asp Gly Glu Ala Asp Cys Gln Asp	
1310 1315 1320 1325	
cgc tca gac gag gtg gac tgt gac gcc atc tgc ctg ccc aac cag ttc	4093
Arg Ser Asp Glu Val Asp Cys Asp Ala Ile Cys Leu Pro Asn Gln Phe	
1330 1335 1340	
cgg tgt gcg agc ggc cag tgt gtc ctc atc aaa cag cag tgc gac tcc	4141
Arg Cys Ala Ser Gly Gln Cys Val Leu Ile Lys Gln Gln Cys Asp Ser	
1345 1350 1355	
ttc ccc gac tgt atc gac ggc tcc gac gag ctc atg tgt gaa atc acc	4189
Phe Pro Asp Cys Ile Asp Gly Ser Asp Glu Leu Met Cys Glu Ile Thr	
1360 1365 1370	

aag ccg ccc tca gac gac agc ccg gcc cac agc agt gcc atc ggg ccc Lys Pro Pro Ser Asp Asp Ser Pro Ala His Ser Ser Ala Ile Gly Pro 1375 1380 1385	4237
gtc att ggc atc atc ctc tct ctc ttc gtc atg ggt ggt gtc tat ttt Val Ile Gly Ile Ile Leu Ser Leu Phe Val Met Gly Gly Val Tyr Phe 1390 1395 1400 1405	4285
gtg tgc cag cgc gtg gtg tgc cag cgc tat gcg ggg gcc aac ggg ccc Val Cys Gln Arg Val Val Cys Gln Arg Tyr Ala Gly Ala Asn Gly Pro 1410 1415 1420	4333
ttc ccg cac gag tat gtc agc ggg acc ccg cac gtg ccc ctc aat ttc Phe Pro His Glu Tyr Val Ser Gly Thr Pro His Val Pro Leu Asn Phe 1425 1430 1435	4381
ata gcc ccg ggc ggt tcc cag cat ggc ccc ttc aca ggc atc gca tgc Ile Ala Pro Gly Gly Ser Gln His Gly Pro Phe Thr Gly Ile Ala Cys 1440 1445 1450	4429
gga aag tcc atg atg agc tcc gtg agc ctg atg ggg ggc cgg ggc ggg Gly Lys Ser Met Met Ser Ser Val Ser Leu Met Gly Gly Arg Gly Gly 1455 1460 1465	4477
gtg ccc ctc tac gac cgg aac cac gtc aca ggg gcc tcg tcc agc agc Val Pro Leu Tyr Asp Arg Asn His Val Thr Gly Ala Ser Ser Ser Ser 1470 1475 1480 1485	4525
tcg tcc agc acg aag gcc acg ctg tac ccg ccg atc ctg aac ccg ccg Ser Ser Ser Thr Lys Ala Thr Leu Tyr Pro Pro Ile Leu Asn Pro Pro 1490 1495 1500	4573
ccc tcc ccg gcc acg gac ccc tcc ctg tac aac atg gac atg ttc tac Pro Ser Pro Ala Thr Asp Pro Ser Leu Tyr Asn Met Asp Met Phe Tyr 1505 1510 1515	4621
tct tca aac att ccg gcc act gcg aga ccg tac agg ccc tac atc att Ser Ser Asn Ile Pro Ala Thr Ala Arg Pro Tyr Arg Pro Tyr Ile Ile 1520 1525 1530	4669
cga gga atg gcg ccc ccg acg acg ccc tgc agc acc gac gtg tgt gac Arg Gly Met Ala Pro Pro Thr Thr Pro Cys Ser Thr Asp Val Cys Asp 1535 1540 1545	4717
agc gac tac agc gcc agc cgc tgg aag gcc agc aag tac tac ctg gat Ser Asp Tyr Ser Ala Ser Arg Trp Lys Ala Ser Lys Tyr Tyr Leu Asp 1550 1555 1560 1565	4765
ttg aac tcg gac tca gac ccc tat cca ccc cca ccc acg ccc cac agc Leu Asn Ser Asp Ser Asp Pro Tyr Pro Pro Pro Pro Thr Pro His Ser 1570 1575 1580	4813
cag tac ctg tcg gcg gag gac agc tgc ccg ccc tcg ccc gcc acc gag Gln Tyr Leu Ser Ala Glu Asp Ser Cys Pro Pro Ser Pro Ala Thr Glu 1585 1590 1595	4861
agg agc tac ttc cat ctc ttc ccg ccc cct ccg tcc ccc tgc acg gac Arg Ser Tyr Phe His Leu Phe Pro Pro Pro Pro Ser Pro Cys Thr Asp 1600 1605 1610	4909
tca tcc tgacctggc cgggccactc tggcttctct gtgcccctgt aaatagtttt Ser Ser 1615	4965
aaatatgaac aaagaaaaaa atatatttta tgatttaaaa aataaatata attgggattt	5025
taaaaacatg agaaatgtga actgtgatgg ggtgggcagg gctgggagaa ctttgtacag	5085
tggagaaata tttataaact taattttgta aaaca	5120

<210> 3
 <211> 1615
 <212> PRT
 <213> Homo sapiens

<400> 3

```

Met Glu Ala Ala Pro Pro Gly Pro Pro Trp Pro Leu Leu Leu Leu Leu
 1           5           10           15
Leu Leu Leu Leu Ala Leu Cys Gly Cys Pro Ala Pro Ala Ala Ala Ser
      20           25           30
Pro Leu Leu Leu Phe Ala Asn Arg Arg Asp Val Arg Leu Val Asp Ala
      35           40           45
Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly Leu Glu Asp
 50           55           60
Ala Ala Ala Val Asp Phe Gln Phe Ser Lys Gly Ala Val Tyr Trp Thr
65           70           75           80
Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn Gln Thr Gly
      85           90           95
Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser Pro Asp Gly
      100          105          110
Leu Ala Cys Asp Trp Val Gly Lys Lys Leu Tyr Trp Thr Asp Ser Glu
      115          120          125
Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser Arg Lys Val
      130          135          140
Leu Phe Trp Gln Asp Leu Asp Gln Pro Lys Ala Ile Ala Leu Asp Pro
      145          150          155          160
Ala His Gly Tyr Met Tyr Trp Thr Asp Trp Gly Glu Thr Pro Arg Ile
      165          170          175
Glu Arg Ala Gly Met Asp Gly Ser Thr Arg Lys Ile Ile Val Asp Ser
      180          185          190
Asp Ile Tyr Trp Pro Asn Gly Leu Thr Ile Asp Leu Glu Glu Gln Lys
      195          200          205
Leu Tyr Trp Ala Asp Ala Lys Leu Ser Phe Ile His Arg Ala Asn Leu
      210          215          220
Asp Gly Ser Phe Arg Gln Lys Val Val Glu Gly Ser Leu Thr His Pro
      225          230          235          240
Phe Ala Leu Thr Leu Ser Gly Asp Thr Leu Tyr Trp Thr Asp Trp Gln
      245          250          255
Thr Arg Ser Ile His Ala Cys Asn Lys Arg Thr Gly Gly Lys Arg Lys
      260          265          270
Glu Ile Leu Ser Ala Leu Tyr Ser Pro Met Asp Ile Gln Val Leu Ser
      275          280          285
Gln Glu Arg Gln Pro Phe Phe His Thr Arg Cys Glu Glu Asp Asn Gly
      290          295          300
Gly Trp Ser His Leu Cys Leu Leu Ser Pro Ser Glu Pro Phe Tyr Thr
      305          310          315          320
Cys Ala Cys Pro Thr Gly Val Gln Met Gln Asp Asn Gly Arg Thr Cys
      325          330          335
Lys Ala Gly Ala Glu Glu Val Leu Leu Leu Ala Arg Arg Thr Asp Leu
      340          345          350
Arg Arg Ile Ser Leu Asp Thr Pro Asp Phe Thr Asp Ile Val Leu Gln

```

355	360	365
Val Asp Asp Ile Arg His	Ala Ile Ala Ile Asp Tyr	Asp Pro Leu Glu
370	375	380
Gly Tyr Val Tyr Trp Thr	Asp Asp Glu Val Arg Ala	Ile Arg Arg Ala
385	390	400
Tyr Leu Asp Gly Ser Gly	Ala Gln Thr Leu Val Asn	Thr Glu Ile Asn
405	410	415
Asp Pro Asp Gly Ile Ala	Val Asp Trp Val Ala Arg	Asn Leu Tyr Trp
420	425	430
Thr Asp Thr Gly Thr Asp	Arg Ile Glu Val Thr Arg	Leu Asn Gly Thr
435	440	445
Ser Arg Lys Ile Leu Val	Ser Glu Asp Leu Asp Glu	Pro Arg Ala Ile
450	455	460
Ala Leu His Pro Val Met	Gly Leu Met Tyr Trp Thr	Asp Trp Gly Glu
465	470	475
Asn Pro Lys Ile Glu Cys	Ala Asn Leu Asp Gly Gln	Glu Arg Arg Val
485	490	495
Leu Val Asn Ala Ser Leu	Gly Trp Pro Asn Gly Leu	Ala Leu Asp Leu
500	505	510
Gln Glu Gly Lys Leu Tyr	Trp Gly Asp Ala Lys Thr	Asp Lys Ile Glu
515	520	525
Val Ile Asn Val Asp Gly	Thr Lys Arg Arg Thr Leu	Leu Glu Asp Lys
530	535	540
Leu Pro His Ile Phe Gly	Phe Thr Leu Leu Gly Asp	Phe Ile Tyr Trp
545	550	555
Thr Asp Trp Gln Arg Arg	Ser Ile Glu Arg Val His	Lys Val Lys Ala
565	570	575
Ser Arg Asp Val Ile Ile	Asp Gln Leu Pro Asp Leu	Met Gly Leu Lys
580	585	590
Ala Val Asn Val Ala Lys	Val Val Gly Thr Asn Pro	Cys Ala Asp Arg
595	600	605
Asn Gly Gly Cys Ser His	Leu Cys Phe Phe Thr Pro	His Ala Thr Arg
610	615	620
Cys Gly Cys Pro Ile Gly	Leu Glu Leu Leu Ser Asp	Met Lys Thr Cys
625	630	635
Ile Val Pro Glu Ala Phe	Leu Val Phe Thr Ser Arg	Ala Ala Ile His
645	650	655
Arg Ile Ser Leu Glu Thr	Asn Asn Asn Asp Val Ala	Ile Pro Leu Thr
660	665	670
Gly Val Lys Glu Ala Ser	Ala Leu Asp Phe Asp Val	Ser Asn Asn His
675	680	685
Ile Tyr Trp Thr Asp Val	Ser Leu Lys Asn Ile Ser	Arg Ala Phe Met
690	695	700
Asn Gly Ser Ser Val Glu	His Val Val Glu Phe Gly	Leu Asp Tyr Pro
705	710	715
Glu Gly Met Ala Val Asp	Trp Met Gly Lys Asn Leu	Tyr Trp Ala Asp
725	730	735
Thr Gly Thr Asn Arg Ile	Glu Val Ala Arg Leu Asp	Gly Gln Phe Arg
740	745	750
Gln Val Leu Val Trp Arg	Asp Leu Asp Asn Pro Arg	Ser Leu Ala Leu
755	760	765

Asp	Pro	Thr	Lys	Gly	Tyr	Ile	Tyr	Trp	Thr	Glu	Trp	Gly	Gly	Lys	Pro	770	775	780
Arg	Ile	Val	Arg	Ala	Phe	Met	Asp	Gly	Thr	Asn	Cys	Met	Thr	Leu	Val	785	790	795
Asp	Lys	Val	Gly	Arg	Ala	Asn	Asp	Leu	Thr	Ile	Asp	Tyr	Ala	Asp	Gln	805	810	815
Arg	Leu	Tyr	Trp	Thr	Asp	Leu	Asp	Thr	Asn	Met	Ile	Glu	Ser	Ser	Asn	820	825	830
Met	Leu	Gly	Gln	Glu	Arg	Val	Val	Ile	Ala	Asp	Asp	Leu	Pro	His	Pro	835	840	845
Phe	Gly	Leu	Thr	Gln	Tyr	Ser	Asp	Tyr	Ile	Tyr	Trp	Thr	Asp	Trp	Asn	850	855	860
Leu	His	Ser	Ile	Glu	Arg	Ala	Asp	Lys	Thr	Ser	Gly	Arg	Asn	Arg	Thr	865	870	875
Leu	Ile	Gln	Gly	His	Leu	Asp	Phe	Val	Met	Asp	Ile	Leu	Val	Phe	His	885	890	895
Ser	Ser	Arg	Gln	Asp	Gly	Leu	Asn	Asp	Cys	Met	His	Asn	Asn	Gly	Gln	900	905	910
Cys	Gly	Gln	Leu	Cys	Leu	Ala	Ile	Pro	Gly	Gly	His	Arg	Cys	Gly	Cys	915	920	925
Ala	Ser	His	Tyr	Thr	Leu	Asp	Pro	Ser	Ser	Arg	Asn	Cys	Ser	Pro	Pro	930	935	940
Thr	Thr	Phe	Leu	Leu	Phe	Ser	Gln	Lys	Ser	Ala	Ile	Ser	Arg	Met	Ile	945	950	955
Pro	Asp	Asp	Gln	His	Ser	Pro	Asp	Leu	Ile	Leu	Pro	Leu	His	Gly	Leu	965	970	975
Arg	Asn	Val	Lys	Ala	Ile	Asp	Tyr	Asp	Pro	Leu	Asp	Lys	Phe	Ile	Tyr	980	985	990
Trp	Val	Asp	Gly	Arg	Gln	Asn	Ile	Lys	Arg	Ala	Lys	Asp	Asp	Gly	Thr	995	1000	1005
Gln	Pro	Phe	Val	Leu	Thr	Ser	Leu	Ser	Gln	Gly	Gln	Asn	Pro	Asp	Arg	1010	1015	1020
Gln	Pro	His	Asp	Leu	Ser	Ile	Asp	Ile	Tyr	Ser	Arg	Thr	Leu	Phe	Trp	1025	1030	1035
Thr	Cys	Glu	Ala	Thr	Asn	Thr	Ile	Asn	Val	His	Arg	Leu	Ser	Gly	Glu	1045	1050	1055
Ala	Met	Gly	Val	Val	Leu	Arg	Gly	Asp	Arg	Asp	Lys	Pro	Arg	Ala	Ile	1060	1065	1070
Val	Val	Asn	Ala	Glu	Arg	Gly	Tyr	Leu	Tyr	Phe	Thr	Asn	Met	Gln	Asp	1075	1080	1085
Arg	Ala	Ala	Lys	Ile	Glu	Arg	Ala	Ala	Leu	Asp	Gly	Thr	Glu	Arg	Glu	1090	1095	1100
Val	Leu	Phe	Thr	Thr	Gly	Leu	Ile	Arg	Pro	Val	Ala	Leu	Val	Val	Asp	1105	1110	1115
Asn	Thr	Leu	Gly	Lys	Leu	Phe	Trp	Val	Asp	Ala	Asp	Leu	Lys	Arg	Ile	1125	1130	1135
Glu	Ser	Cys	Asp	Leu	Ser	Gly	Ala	Asn	Arg	Leu	Thr	Leu	Glu	Asp	Ala	1140	1145	1150
Asn	Ile	Val	Gln	Pro	Leu	Gly	Leu	Thr	Ile	Leu	Gly	Lys	His	Leu	Tyr	1155	1160	1165
Trp	Ile	Asp	Arg	Gln	Gln	Gln	Met	Ile	Glu	Arg	Val	Glu	Lys	Thr	Thr			

1170	1175	1180
Gly Asp Lys Arg Thr Arg Ile Gln Gly Arg Val Ala His Leu Thr Gly		
1185	1190	1195 1200
Ile His Ala Val Glu Glu Val Ser Leu Glu Glu Phe Ser Ala His Pro		
	1205	1210 1215
Cys Ala Arg Asp Asn Gly Gly Cys Ser His Ile Cys Ile Ala Lys Gly		
	1220	1225 1230
Asp Gly Thr Pro Arg Cys Ser Cys Pro Val His Leu Val Leu Leu Gln		
	1235	1240 1245
Asn Leu Leu Thr Cys Gly Glu Pro Pro Thr Cys Ser Pro Asp Gln Phe		
	1250	1255 1260
Ala Cys Ala Thr Gly Glu Ile Asp Cys Ile Pro Gly Ala Trp Arg Cys		
1265	1270	1275 1280
Asp Gly Phe Pro Glu Cys Asp Asp Gln Ser Asp Glu Glu Gly Cys Pro		
	1285	1290 1295
Val Cys Ser Ala Ala Gln Phe Pro Cys Ala Arg Gly Gln Cys Val Asp		
	1300	1305 1310
Leu Arg Leu Arg Cys Asp Gly Glu Ala Asp Cys Gln Asp Arg Ser Asp		
	1315	1320 1325
Glu Val Asp Cys Asp Ala Ile Cys Leu Pro Asn Gln Phe Arg Cys Ala		
	1330	1335 1340
Ser Gly Gln Cys Val Leu Ile Lys Gln Gln Cys Asp Ser Phe Pro Asp		
1345	1350	1355 1360
Cys Ile Asp Gly Ser Asp Glu Leu Met Cys Glu Ile Thr Lys Pro Pro		
	1365	1370 1375
Ser Asp Asp Ser Pro Ala His Ser Ser Ala Ile Gly Pro Val Ile Gly		
	1380	1385 1390
Ile Ile Leu Ser Leu Phe Val Met Gly Gly Val Tyr Phe Val Cys Gln		
	1395	1400 1405
Arg Val Val Cys Gln Arg Tyr Ala Gly Ala Asn Gly Pro Phe Pro His		
	1410	1415 1420
Glu Tyr Val Ser Gly Thr Pro His Val Pro Leu Asn Phe Ile Ala Pro		
1425	1430	1435 1440
Gly Gly Ser Gln His Gly Pro Phe Thr Gly Ile Ala Cys Gly Lys Ser		
	1445	1450 1455
Met Met Ser Ser Val Ser Leu Met Gly Gly Arg Gly Gly Val Pro Leu		
	1460	1465 1470
Tyr Asp Arg Asn His Val Thr Gly Ala Ser Ser Ser Ser Ser Ser Ser		
	1475	1480 1485
Thr Lys Ala Thr Leu Tyr Pro Pro Ile Leu Asn Pro Pro Pro Ser Pro		
	1490	1495 1500
Ala Thr Asp Pro Ser Leu Tyr Asn Met Asp Met Phe Tyr Ser Ser Asn		
1505	1510	1515 1520
Ile Pro Ala Thr Ala Arg Pro Tyr Arg Pro Tyr Ile Ile Arg Gly Met		
	1525	1530 1535
Ala Pro Pro Thr Thr Pro Cys Ser Thr Asp Val Cys Asp Ser Asp Tyr		
	1540	1545 1550
Ser Ala Ser Arg Trp Lys Ala Ser Lys Tyr Tyr Leu Asp Leu Asn Ser		
	1555	1560 1565
Asp Ser Asp Pro Tyr Pro Pro Pro Pro Thr Pro His Ser Gln Tyr Leu		
	1570	1575 1580

Ser Ala Glu Asp Ser Cys Pro Pro Ser Pro Ala Thr Glu Arg Ser Tyr
 1585 1590 1595 1600
 Phe His Leu Phe Pro Pro Pro Pro Ser Pro Cys Thr Asp Ser Ser
 1605 1610 1615

<210> 4
 <211> 1615
 <212> PRT
 <213> Homo sapiens

<400> 4
 Met Glu Ala Ala Pro Pro Gly Pro Pro Trp Pro Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Leu Leu Ala Leu Cys Gly Cys Pro Ala Pro Ala Ala Ala Ser
 20 25 30
 Pro Leu Leu Leu Phe Ala Asn Arg Arg Asp Val Arg Leu Val Asp Ala
 35 40 45
 Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly Leu Glu Asp
 50 55 60
 Ala Ala Ala Val Asp Phe Gln Phe Ser Lys Gly Ala Val Tyr Trp Thr
 65 70 75 80
 Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn Gln Thr Gly
 85 90 95
 Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser Pro Asp Gly
 100 105 110
 Leu Ala Cys Asp Trp Val Gly Lys Lys Leu Tyr Trp Thr Asp Ser Glu
 115 120 125
 Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser Arg Lys Val
 130 135 140
 Leu Phe Trp Gln Asp Leu Asp Gln Pro Lys Ala Ile Ala Leu Asp Pro
 145 150 155 160
 Ala His Gly Tyr Met Tyr Trp Thr Asp Trp Val Glu Thr Pro Arg Ile
 165 170 175
 Glu Arg Ala Gly Met Asp Gly Ser Thr Arg Lys Ile Ile Val Asp Ser
 180 185 190
 Asp Ile Tyr Trp Pro Asn Gly Leu Thr Ile Asp Leu Glu Glu Gln Lys
 195 200 205
 Leu Tyr Trp Ala Asp Ala Lys Leu Ser Phe Ile His Arg Ala Asn Leu
 210 215 220
 Asp Gly Ser Phe Arg Gln Lys Val Val Glu Gly Ser Leu Thr His Pro
 225 230 235 240
 Phe Ala Leu Thr Leu Ser Gly Asp Thr Leu Tyr Trp Thr Asp Trp Gln
 245 250 255
 Thr Arg Ser Ile His Ala Cys Asn Lys Arg Thr Gly Gly Lys Arg Lys
 260 265 270
 Glu Ile Leu Ser Ala Leu Tyr Ser Pro Met Asp Ile Gln Val Leu Ser
 275 280 285
 Gln Glu Arg Gln Pro Phe Phe His Thr Arg Cys Glu Glu Asp Asn Gly
 290 295 300
 Gly Trp Ser His Leu Cys Leu Leu Ser Pro Ser Glu Pro Phe Tyr Thr

Page 19

Glu Gly Met Ala Val Asp Trp Met Gly Lys Asn Leu Tyr Trp Ala Asp	725	730	735
Thr Gly Thr Asn Arg Ile Glu Val Ala Arg Leu Asp Gly Gln Phe Arg	740	745	750
Gln Val Leu Val Trp Arg Asp Leu Asp Asn Pro Arg Ser Leu Ala Leu	755	760	765
Asp Pro Thr Lys Gly Tyr Ile Tyr Trp Thr Glu Trp Gly Gly Lys Pro	770	775	780
Arg Ile Val Arg Ala Phe Met Asp Gly Thr Asn Cys Met Thr Leu Val	785	790	795
Asp Lys Val Gly Arg Ala Asn Asp Leu Thr Ile Asp Tyr Ala Asp Gln	805	810	815
Arg Leu Tyr Trp Thr Asp Leu Asp Thr Asn Met Ile Glu Ser Ser Asn	820	825	830
Met Leu Gly Gln Glu Arg Val Val Ile Ala Asp Asp Leu Pro His Pro	835	840	845
Phe Gly Leu Thr Gln Tyr Ser Asp Tyr Ile Tyr Trp Thr Asp Trp Asn	850	855	860
Leu His Ser Ile Glu Arg Ala Asp Lys Thr Ser Gly Arg Asn Arg Thr	865	870	875
Leu Ile Gln Gly His Leu Asp Phe Val Met Asp Ile Leu Val Phe His	885	890	895
Ser Ser Arg Gln Asp Gly Leu Asn Asp Cys Met His Asn Asn Gly Gln	900	905	910
Cys Gly Gln Leu Cys Leu Ala Ile Pro Gly Gly His Arg Cys Gly Cys	915	920	925
Ala Ser His Tyr Thr Leu Asp Pro Ser Ser Arg Asn Cys Ser Pro Pro	930	935	940
Thr Thr Phe Leu Leu Phe Ser Gln Lys Ser Ala Ile Ser Arg Met Ile	945	950	955
Pro Asp Asp Gln His Ser Pro Asp Leu Ile Leu Pro Leu His Gly Leu	965	970	975
Arg Asn Val Lys Ala Ile Asp Tyr Asp Pro Leu Asp Lys Phe Ile Tyr	980	985	990
Trp Val Asp Gly Arg Gln Asn Ile Lys Arg Ala Lys Asp Asp Gly Thr	995	1000	1005
Gln Pro Phe Val Leu Thr Ser Leu Ser Gln Gly Gln Asn Pro Asp Arg	1010	1015	1020
Gln Pro His Asp Leu Ser Ile Asp Ile Tyr Ser Arg Thr Leu Phe Trp	1025	1030	1035
Thr Cys Glu Ala Thr Asn Thr Ile Asn Val His Arg Leu Ser Gly Glu	1045	1050	1055
Ala Met Gly Val Val Leu Arg Gly Asp Arg Asp Lys Pro Arg Ala Ile	1060	1065	1070
Val Val Asn Ala Glu Arg Gly Tyr Leu Tyr Phe Thr Asn Met Gln Asp	1075	1080	1085
Arg Ala Ala Lys Ile Glu Arg Ala Ala Leu Asp Gly Thr Glu Arg Glu	1090	1095	1100
Val Leu Phe Thr Thr Gly Leu Ile Arg Pro Val Ala Leu Val Val Asp	1105	1110	1115
Asn Thr Leu Gly Lys Leu Phe Trp Val Asp Ala Asp Leu Lys Arg Ile			1120

	1125		1130		1135
Glu Ser Cys Asp Leu Ser Gly Ala Asn Arg Leu Thr Leu Glu Asp Ala					
	1140		1145		1150
Asn Ile Val Gln Pro Leu Gly Leu Thr Ile Leu Gly Lys His Leu Tyr					
	1155		1160		1165
Trp Ile Asp Arg Gln Gln Gln Met Ile Glu Arg Val Glu Lys Thr Thr					
	1170		1175		1180
Gly Asp Lys Arg Thr Arg Ile Gln Gly Arg Val Ala His Leu Thr Gly					
1185		1190		1195	1200
Ile His Ala Val Glu Glu Val Ser Leu Glu Glu Phe Ser Ala His Pro					
	1205		1210		1215
Cys Ala Arg Asp Asn Gly Gly Cys Ser His Ile Cys Ile Ala Lys Gly					
	1220		1225		1230
Asp Gly Thr Pro Arg Cys Ser Cys Pro Val His Leu Val Leu Leu Gln					
	1235		1240		1245
Asn Leu Leu Thr Cys Gly Glu Pro Pro Thr Cys Ser Pro Asp Gln Phe					
	1250		1255		1260
Ala Cys Ala Thr Gly Glu Ile Asp Cys Ile Pro Gly Ala Trp Arg Cys					
1265		1270		1275	1280
Asp Gly Phe Pro Glu Cys Asp Asp Gln Ser Asp Glu Glu Gly Cys Pro					
	1285		1290		1295
Val Cys Ser Ala Ala Gln Phe Pro Cys Ala Arg Gly Gln Cys Val Asp					
	1300		1305		1310
Leu Arg Leu Arg Cys Asp Gly Glu Ala Asp Cys Gln Asp Arg Ser Asp					
	1315		1320		1325
Glu Val Asp Cys Asp Ala Ile Cys Leu Pro Asn Gln Phe Arg Cys Ala					
	1330		1335		1340
Ser Gly Gln Cys Val Leu Ile Lys Gln Gln Cys Asp Ser Phe Pro Asp					
1345		1350		1355	1360
Cys Ile Asp Gly Ser Asp Glu Leu Met Cys Glu Ile Thr Lys Pro Pro					
	1365		1370		1375
Ser Asp Asp Ser Pro Ala His Ser Ser Ala Ile Gly Pro Val Ile Gly					
	1380		1385		1390
Ile Ile Leu Ser Leu Phe Val Met Gly Gly Val Tyr Phe Val Cys Gln					
	1395		1400		1405
Arg Val Val Cys Gln Arg Tyr Ala Gly Ala Asn Gly Pro Phe Pro His					
	1410		1415		1420
Glu Tyr Val Ser Gly Thr Pro His Val Pro Leu Asn Phe Ile Ala Pro					
1425		1430		1435	1440
Gly Gly Ser Gln His Gly Pro Phe Thr Gly Ile Ala Cys Gly Lys Ser					
	1445		1450		1455
Met Met Ser Ser Val Ser Leu Met Gly Gly Arg Gly Gly Val Pro Leu					
	1460		1465		1470
Tyr Asp Arg Asn His Val Thr Gly Ala Ser Ser Ser Ser Ser Ser					
	1475		1480		1485
Thr Lys Ala Thr Leu Tyr Pro Pro Ile Leu Asn Pro Pro Pro Ser Pro					
	1490		1495		1500
Ala Thr Asp Pro Ser Leu Tyr Asn Met Asp Met Phe Tyr Ser Ser Asn					
1505		1510		1515	1520
Ile Pro Ala Thr Ala Arg Pro Tyr Arg Pro Tyr Ile Ile Arg Gly Met					
	1525		1530		1535

Ala Pro Pro Thr Thr Pro Cys Ser Thr Asp Val Cys Asp Ser Asp Tyr
1540 1545 1550
Ser Ala Ser Arg Trp Lys Ala Ser Lys Tyr Tyr Leu Asp Leu Asn Ser
1555 1560 1565
Asp Ser Asp Pro Tyr Pro Pro Pro Pro Thr Pro His Ser Gln Tyr Leu
1570 1575 1580
Ser Ala Glu Asp Ser Cys Pro Pro Ser Pro Ala Thr Glu Arg Ser Tyr
1585 1590 1595 1600
Phe His Leu Phe Pro Pro Pro Pro Ser Pro Cys Thr Asp Ser Ser
1605 1610 1615

<210> 5
<211> 3096
<212> DNA
<213> Homo sapiens

<400> 5
catcttctca cagcatctct cgcttcgcac tccttccttt gattgggttt caccatttac 60
tcagacgacg gtcccttcttc gatctttgca cattcttcta tcatctacta ccttcataacc 120
cagctccgtc ccctaataatt catgcgcgga tggcccatc cgtggtgaaa attcccttct 180
actctgctaa tctgctgttc tctctccctc ccgtcgggtt ctgctcctgc caggttctcc 240
cctctcccca ccaaaggctg ggttttcttt gtcagggtc ctttccctt tggaagaagg 300
ggggctgtat ggccttggtg cgaggccctc cagtgcacagg atccccatc acccagagtt 360
ccacaggccc tggtagggag gagggggagc agaagaggag gtgccatctt tgccctgctgg 420
ggaagggcag gggccacca cacagagctc tcccatctgc tgtggaccct ggggccactg 480
cccagttcct tccaaaggaa agccagctcc ccagggtggt ggagagtgat atggcttctc 540
cttaaaacta gggaattgag tgtgtggtt cttctaagt ccttagaagc cgggagcggc 600
tcctggaaag agcctgcctg ccacagcggg ccttaccctg gctgtgcca cagatgtccc 660
tggggcctgc cgctcctgcc cggtctctct ggctccccc ggtgtgggtt gggaaaagca 720
cagcaaatta aaaaacacct ccactctctg ctttgaaga atgcatctga acagccgaga 780
gtgtaaaccg tggtgaaatg tggcttttcc agtttgggga gaagcagggc agagctgggg 840
cttttgtacc cagggtttcc aagagctcct gcctccctcg gctgggctgg ccaggggccc 900
ccgctgggac ctccagctgt aataggggag gttttactgg gttgctggcc actgtggact 960
gcccctaagg gcaggtatgc ctgcctttac ccgggttccc ctccctgcctg gaagatacag 1020
cccatgggag gcctgttgtc tgtgggatcc tccagcatca gagacactgg ggccagcgtc 1080
tgccctggga ggtgcaggcc tggcaggccc ggtcccccac ctgcttgagc acccaggtg 1140
gtgggggctc gctgcctccc gagacaatct atgtcattgt tgtccaagga agctaattta 1200
gagtagaaaag ttccgtgtcc agtcccactc tgtgcgtgtg ttagcagggg actctcgggc 1260
cggagctggg tccaccctgg tagggggact tcatggggcc tgggcgacag cactgtgtat 1320
ttgtgtgtgt gtgtgtttgt gtgtgtgtgt gtctgaggag gtggaccagt ttctcaaaag 1380
gcctgtgacc ccaagaacca aggaatttca gcctgggtgg atcacacctt cactggtgag 1440
tgggacaagc tgggggccct cgccacagga gcagccagg catggggcac agttggcctc 1500
attcacaaaa tgggagtata agtgatccct gctctggcgg ccaggacgat gagtgggaac 1560
acaccgtgtg ggggctgcct ggctgggtg tgcgcgggt gtccctgttg gtgatggttc 1620
cacctgcttg tgccaccagt gccctctggg tctcacacac aactctcttc ccagcgaagg 1680
ccctcctgc cctcaggcct cagtgtgtct tccgtctcgg aaggccccag gagctcctgc 1740
atcctgggcg tgattcctgt gtgcctgcag acccctcgc ggctgccatc tcatcctttg 1800
gtgcacctgt tggccagacc tcctggtagc ggtgtctgca ctccctgaa tgtgccggg 1860
cctgggggca gggacctggg ctccctcctc actgagtgga gggaaactcag tgtcttgagg 1920
ttgggggtgcc tgcaggctgg gtggtgcagg tgaaatgcag acctctcagc tgggtgtcca 1980

gagcagctgc	cttccccgc	ccgagggact	tcacccgcag	cccagtcagg	ggtggcgcc	2040
gggtgcatcg	cccgcaggct	gggtaggggt	ggagcctggg	tggccctgcc	tgtgagctgc	2100
atagtgtcg	cctttgaccc	tgagttttct	tcgttatctg	tttggacctg	tttggggcag	2160
gcaggggatg	agatctgaag	ataaatgcct	tagctgtgac	catctccttt	tgtgagaggt	2220
caatgtccag	ttccgctgca	gttataacat	cccatttttt	gatttctttt	tattttttcc	2280
ttttctttt	tgagatggag	tctcgctctg	tcacccaggc	tggagtgcaa	tggggtgacc	2340
tcagctcact	gcaacctcca	cttctcgggt	tcaagtgatt	ctcctgcctc	agcctcctga	2400
ctagcagggg	ttacaggcgt	gagccaccac	gccagctaa	ttttgtatt	tttagtagag	2460
gcaagggttc	gtcatgttgg	ccaggctggg	ctcaaactcc	tggccttaag	tgatctgcc	2520
gctcggcct	cccaaagtgc	tgagatgaca	ggtgtgagcc	accgtgccc	gccagaact	2580
ctttaattcc	cacctgaaac	ttgccgcctt	aagcaggtcc	ccagtctccc	tcccctagtc	2640
cctggtcca	ccattctgct	ttctgtctca	atgaatttgc	ctaccgtaag	tacctcatat	2700
aaattgaatc	ataaagtatt	tgtcttttta	tatctggctt	atttcaacta	gcataacatt	2760
cttaagtttc	atccatgttg	tagcatgtgt	cagaatctct	ctcttttttt	tttttttttt	2820
ttttttttt	ttttgcagac	agagtctcgc	tctgtcatct	agactggagt	tcagtggcac	2880
gatctcgggt	cactgcaaca	tctgcctcct	gggtccaagc	aattctcctg	cctcagcctc	2940
cttagcagct	ggaactacag	gcgcgtgcc	ccatgccttg	ctaatttttg	tatttttatg	3000
tggaggcagg	gtttcaccat	cttggccagg	ctgggtctcg	attcctggtc	ttcaccacgg	3060
gggcccgaag	gacccgggca	aagcgtggag	gggagg			3096

<210> 6
 <211> 26928
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (12044), (12489), (26433), (26434), (26435), (26436), (26439), (26441)
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 6						
gaagaccaag	ggcacacagc	gaggcagttt	cagggcgggc	agcctggggc	cccacggggc	60
ggccccggac	acttgttctc	acctgtggag	ggcagagaag	ggaacaggga	gagaagtggc	120
cggtggggag	tggaggtggg	ttttaggttt	tactgtaaac	taaagtgtga	ccctctacct	180
tagttatgaa	ttatgagaca	cgaagactgc	gaaacagaca	cactcctcta	aaagtgcctc	240
taggctgaca	gggagaaagt	cccgccaggc	tcccagacgc	cacctttgag	tccttcaaca	300
agcccgccag	ggcctcttgc	ccaccgggtg	cagctcagcc	actgaaccct	ccaggaagaa	360
gacgtgctgg	taggagaaga	atctcaccca	ggcacagcct	ggaaggggca	cagaaggggc	420
tccggaacca	gcaagcccaa	gttgaacte	ccagtctgct	actttctaga	acgactgtgc	480
ccttggcggg	tctaagtaga	acctctccgc	gcactcttct	ctcctttgta	aagtggggac	540
agcaatggcc	accttgcagg	ttcagagagg	gcttgcagta	cctcacagaa	ctgagtgecc	600
gtgaacgtgt	gtgttctctc	agatttgtga	cagctttgcc	aggctggagt	caggctgaac	660
gcctctgccc	tcattggggt	tatattctag	gaagaccaac	aaaaacaaga	agacggaaaa	720
ttaaaacaac	aaaagcccca	ttgacaggcc	gtgaagaatg	ccatgaaaaa	tgaatggcgt	780
tgtgtgtcag	tctttgggga	aacgggctta	cggaagagcag	acatccactg	aggaggcgt	840
tgagcagccg	tccggtggga	gggcagttca	gggggaggaa	ccacatcagg	ccatgagctg	900
ggggcagagg	gcagcctggg	cgctggattc	agccagggcc	agctcatgtc	agacctcaag	960
gagctgggtg	tagaatgtac	aggagaggcc	gagcaatggg	aagccagtct	acgatttaag	1020
cggggaagat	gaatcgagaa	tgcacccac	gcacccagct	ctaccagcac	agcctggggg	1080
cagcaaaaat	attttccctt	cttccaccct	cccagctctt	cttacttctc	tactactgcc	1140
tctattttca	agatagaata	gacccagact				1200

acctgtcacc	caatcatgcg	tccccacttg	cagcctcgac	ccccttccac	ctgatctcat	1260
ggcagccagg	gaagctccag	ggctcgtgag	ggctgccatc	tcaggaaaga	agcaaaagcc	1320
ttcggcacct	gcagggcctg	ctccaaccac	acttcttctt	tgacctctca	gcttccttag	1380
ccactccctt	cccacatctc	accctgctcc	agccacagtg	gtgtctctgt	gggttctcaa	1440
acacaccagg	tgcactcctg	cctcagggcc	tttgtgcttg	ctgttctctg	ctgggactct	1500
tttttttttt	tttttttttg	agacaggggc	tcaactctgt	gccagggctg	gagtgtagt	1560
gtgtgatcgt	agctcattgc	aacctcaaac	tcttgggctc	aagcaatcct	cccacctcag	1620
cctctcaagt	agtttagctt	tggtgttttg	ttttgagatg	ggatctcact	ctgttgccca	1680
ggctggagtg	cagtggggca	atcttggttc	accacaacct	ctgcctccca	ggctcaagca	1740
atttctcctg	ctcagcctcc	caagtagctg	ggattacagg	catgtgccac	cacgcccagc	1800
ttatttttgt	attttttagt	gagacagggg	ttaccatgt	tggctctggc	ggctctgaac	1860
tcttggcctc	agatgatcca	cctgcctcgg	cctcccaaag	tgctgggatg	acaggcatga	1920
gcctgtctct	agtagttagg	actacagaga	ggggccatca	tgctgggtga	tcctcccacc	1980
ttttctgctc	caactctttc	accccactta	gcctcgtggc	tcaactctct	acctcttcag	2040
ctcctcagtc	aggcctgagg	acccctgttg	aaaattgcaa	accacacccc	ccaccaccac	2100
cacccactat	tgccagcact	ttctactcca	tttctctgct	ttacttttct	cctttgtact	2160
catcaccacc	tgactcatta	catgtttacg	tatctttctt	ctctccacta	gcatggaagc	2220
tccaggagag	cagagagtgt	agttttatct	cctgatgtgt	ttcctgtgcc	cgtaccaggg	2280
cctagcacac	agtaggtgct	cagtaaatgt	gtgttggtat	aacaaataca	gtgaaaggat	2340
ctgatctaca	tttataaaga	aggcactctg	gctgctgagt	ggggatgaga	ctgtcaggag	2400
gaaagaggcc	cctgtggggg	cctggccagc	aggtgggtac	aatggtagca	gccaggagag	2460
agggcctctt	ggactcaagt	ggatggggcc	tgctcagggc	tccggccaca	ggaacaaagg	2520
gaagggggcc	caggatggcc	tgtcatagag	gacacattac	aactggccca	aagtccaagt	2580
caggtttcta	aatttgggaa	gggatacaga	aaaactaaag	actctactgg	acagtcagtt	2640
attgaaatga	ttacatagaa	aatgtaccaa	gaattaaaaa	aaaaaaaaaa	aagcattatg	2700
aagggggccac	cagagactcc	cagagaggaa	agggactatg	ggctggatgc	ggtgactcac	2760
acctataatc	ccagcacttt	gggaggccga	ggagggtgga	tcacgaggtc	aggagttcaa	2820
aaccagccta	ggcaacatgg	taaaaccccc	gtttctacta	aaaatacaaa	aaattagctg	2880
ggcatggcag	catgtgcctg	taatcccagc	tactcgggag	gctgaggcag	gagagttgct	2940
agaacccagg	aggcagagggt	tgcatgtgag	cgagattgag	ccactatgct	ccagcttggg	3000
cgacagagca	agactccgtc	tctaaaaaaa	agaaaaaaa	ggccagatga	ggtggctcat	3060
gcctgtaatc	ccagcacttt	gggaggccga	ggtgggtgga	tcacgaggtc	aggagatcga	3120
gaccatcctg	gctaacatgg	tgaaactcca	tctctactta	aaatacaaaa	aattagccgg	3180
gcgtggtggc	gggcacctgt	agtcccagct	acttgggagg	ctgaggcagg	agaatggcgt	3240
gaacctggga	ggcggagctt	gcagtgagcc	gagattgcgc	cactgcactc	catccagcct	3300
gggcgacaga	gttagactcc	gtctcaaaaa	aaaaaaaaaa	aaaaaaatta	gctgattagt	3360
tgggcttggg	ggcgggcgcc	tgtaatccca	actactcggg	aggctgaggc	gggagaatca	3420
cttgaacccg	ggaggcagag	gttgcaatga	gccgatatac	cgccactaca	ctccagcctg	3480
ggcgacagag	caagactcca	tctcaaaaaa	gaaaaaaa	aagaaagggg	ctgtgctgtg	3540
gcctgggacc	caaagcacac	tactgcaagg	tcacaggggt	cctgactcca	accggagcct	3600
tgagaacatt	catttgcaaa	gaatgaatta	aaattcagca	ctattttatt	ctgcaggatt	3660
ccagcaccct	aaggacagtc	attttttagc	ccttcagtaa	cgtaataagt	aaccggagga	3720
tgtgctgagc	ttccacttcc	ccagacgggt	gcctgtcaca	gctcatcagg	ccaacaaact	3780
tttcttaggc	ctcaaatttg	gaaatgttca	ctctcagttc	gttccttaga	tgcaagtcca	3840
tcccaatgaa	gtaacagggg	ctcagcacct	gtccaatctc	attgcttccg	gggacagggg	3900
cccatgagga	tgctgtttca	gcccgttgac	acttgggcaa	agtgcctttt	ggtttccctc	3960
ccaggctgga	acgtgctggc	tctgtgaagt	tacgtggggc	acaagagccc	cccccaacct	4020
ggcaggactg	actgctgtgg	tcagaggcgc	ccctggggct	ttgggagcca	cagaatcttc	4080
ctgagggcag	cgccggaggga	ggccccagtg	agagtgccca	ctgccaggct	cattcctcag	4140
gctgccgcag	gcctctcccc	aaaacaggca	atgcttctca	gcaacctgcc	ccaggagcag	4200
gccagggaag	gccgccatcg	gcctacagtg	ctgggctctg	gagggttggg	ttggtaacag	4260

gccatggttt	ctatgagcca	gctgggggtgt	gaaggacaca	ggctggattc	acctctctgg	4320
gcctcagttt	ctgcattcaa	aaagtgggaa	tcatgatata	tgctctattt	cttatctctc	4380
agtgtctgatg	tgaacctcca	ataagacttt	taaaaatact	ctttctacct	tactttttatt	4440
tttcatttat	tttaagataa	tgtctagctg	tctcaccag	gctggagtgc	agtgggtgtga	4500
ttacggctca	ctacagcctt	aacctcccag	gctcaagtga	tcctcctacc	acagcctccc	4560
aagtagctgg	aactacaggc	atgcaccacc	gcacctggat	aattttttct	tttgagacaa	4620
ggtttcactc	tgttgccag	gctggagtgc	agtgggtgcac	tcttggtcca	ctgcagcctc	4680
aacctccctg	ggcttaggtg	atcctcacac	ttcagtctcc	caagtagctg	ggactacagg	4740
tatgtgccag	tacaccagc	taatattttt	gaaggatggg	gtttcactat	attgccagg	4800
ctggtcttga	actccaggg	ttaagcaatc	taccttcctc	agcctgccaa	agtgttagga	4860
ttataggtat	gagccacccc	ccggcctata	atcctaccac	tttaaaaaag	cctgtaattt	4920
tagcacttta	aaaaattttt	ctaaattttt	tatagagatg	ggggacagct	gtgggtctcac	4980
tgtgttgccc	aggctggctc	tgaactccta	ggatcaagcc	atcctcctgg	cctggcctcc	5040
caaagtgttg	ggattataag	cataagcctt	accttacctt	ttttttttga	gttgacgttt	5100
tgttcttggt	gctcaggctg	gagtgcattg	gcaagatctt	ggctcactgc	aacctccacc	5160
tcccgggttc	aagcaattct	cctgcctcag	cctcccgagt	agctgggatt	acaggcatgc	5220
gccaccacac	ccagctaatt	ttgtattttt	agtagagatg	gggtttctct	atatacctta	5280
atttttaaagc	actgcattca	tgtaaattgt	gattaacatg	gattcaagag	agggagttag	5340
gatgaatgag	ccaggcagtc	acctcggtct	tcacctccca	cttctctcct	ccttctgaca	5400
gtcatogtcc	atccgtttct	gcagctgttt	gtttgactct	cctgatcatt	ttgcttgcca	5460
cataacttgc	ctcctgggaa	agaatgccct	gggcaggccc	acatgagtag	tgaaaaataa	5520
tctgcagtga	aaaataaaac	taagtagtct	ggtcacacaga	gcagtcttat	tttttcactg	5580
cagatgaagg	agttgacatt	caggcttcat	tctcatttat	aagtgtttta	aagacacata	5640
cagtggattg	aacagtggcc	ttcaaaaaga	tgtatctaca	tcctaattcc	tgggacctgt	5700
gaatgttaac	caagtttagga	aaagggtctt	ccgggtgtct	attaagttag	agatcttgag	5760
atgaggagct	catcgtggat	tatccagggt	gacctgcat	ccaaggacaa	atggctctta	5820
gaaaagaaaa	gcagaggctg	ggcacagtgg	ctcaagcctg	taatcccagc	actttgagag	5880
gccgaggtgg	gtggatcacc	taaggctcat	agttcgagag	cagcctggcc	aacatgatga	5940
aatcccatct	ctactaaaaa	tacaaaaatt	agcaaggcat	gggtggcgggt	gcctataatc	6000
ccagctactc	aggaagctga	ggcaggagaa	tggtctgcac	ctgggaggcg	gaggttgtag	6060
tgagccaaga	tgcgcgcaact	gcactccagc	ctgagggaga	aaagtgaaac	tctgtctcat	6120
aaaagaaaaag	aaaagcagac	agagatctga	gacagaagag	gagagtgaag	gaaaaaaggc	6180
catgtgaaga	tgaggcagag	gttgaggcca	tgacagccaca	agccaaggaa	tacctggagc	6240
cccagaagtt	gcaagaggta	ggaagaagcc	tcccctagag	cctccagacg	gagcacagcc	6300
ctgccaacac	ctccacctca	gacttctggc	ctccagcact	gtgagataat	caactgctgt	6360
tgtttttaagc	caccagattt	gtggtaattt	gttatggcag	ccacaggaaa	ctaatacagt	6420
acctaatctt	cacaaaccca	tcttacagaa	aaggaaactg	aagtcagaga	ggtagtggct	6480
tgtgcagtgt	gttaggccat	tcttgtatta	ctataaagaa	atacctgagg	ccgggcatgg	6540
tggctcacgc	ctgtaatccc	agcacttttg	gaggccaagg	tgagtggatc	acttgaggtc	6600
aggagttaa	gaccagcctg	gacaacatgg	tgaaacccca	tttctactga	aaatatgaaa	6660
attagccagg	catggtggcg	tgcatctgta	gtcccagcta	ctcaggaggc	tgaggcagga	6720
gaatcacttg	cgcgccgggag	gaggagggtg	tagtgagcca	agattgtgcc	actgcactcc	6780
agcctgggag	acaagagaga	aacctgtctt	caaaataaat	aaaaaacaaa	taaacacctg	6840
agactgggta	gtttataaaag	aaaggggtta	actggctccc	ggttctgcag	gctgtacaag	6900
catggtgccg	gcactctgctt	ggttgctggg	aaggcttcag	ggagttttac	tcactgtgga	6960
aggcagagcc	agagcagggtg	catcacacag	caaaagcagg	agcgagagag	agagagagca	7020
gggagggtgtg	cacactttta	aatgagcaga	tctcacgaga	actcaccatt	gcaaggacag	7080
caccaagcca	cgaggggtct	gcccccatga	cccaaacctc	ccactaggcc	ccacccccaa	7140
cattgggaat	tacagttcaa	catgagggtt	ggggggacaa	atatccaaac	tatatcattc	7200
cacccctggc	ccccagatc	tcatgttctt	ctcacattgc	aaaatatagt	catgccttcc	7260
cagtagcccc	ccaaagtctt	aactcatccc	agcatthaact	caaaaatccc	attcccaagt	7320

ccaacgtctc	atctgaagat	gagttccttt	cacctacaag	actgtaaaaa	tgaaaacagt	7380
tatttactgc	tgagatacaa	tgggggcata	ggcattaggt	aaacattcct	gttccaaaag	7440
ggagaaatcg	gtcaaaagaa	aggggctata	ggccccaagc	aagtccaaaa	cccagcagag	7500
caatcattca	atcttaaagc	tccaaaataa	cctccttaaa	ctccatgtcc	catagccagg	7560
gcacactggt	gcaaggggca	ggctcccaag	gccttgggca	gctctattcc	tgcggctttg	7620
cagaattcag	tccccatggc	tgctcttaca	gattggagat	gagggcctgc	ggcttttcca	7680
ggtgcagggt	gcaagctgct	ggtgatctac	cattctgggg	tgtggatggt	ggcgcccccg	7740
tcccgagct	ccactaggca	ttgtccagct	ggggactcta	tgtggggcct	ccaacccac	7800
atttcccctc	caatgggaag	gctctgcccc	tgcagcagcc	ttcttcctgg	gctcccaggc	7860
tttctcatac	atcctctgac	atctaggtgg	atgggtgtcaa	gcttccttca	ctcttgcaact	7920
ctgcacacct	acaggcttaa	caccacatgg	aagctgccaa	ggtgtatggc	tggaaacctc	7980
tgaagcagca	gcctgagctg	tgactatggc	cctttgagcc	aaggctggag	ctggaacagt	8040
ctagatgcag	gcagggagca	gtgtcctgag	gctgtgcaga	gcagcagggc	cctgtgcctg	8100
gacaatgaaa	ccattctttc	ctcctcatcc	tctgggcctg	tgatgggagg	gttgtggaag	8160
atctctgaaa	tgcttttgag	gcctttttgc	ctctgaggcc	tatttcctat	tgtctcagtt	8220
attggcagtc	ggctcctttt	tagttatgca	aatcctctag	caagaggtta	ctccactgcc	8280
ggcttgaact	cctctcctga	aaaagctttt	tctttctttg	tcacatggcc	aggctgcaaa	8340
ttttccaaac	ttttatgctc	tgttttacct	ttaaataataa	cttctaactt	taattcattt	8400
atttgctcct	gcatttgagc	ataggggaatt	caaagaagct	gggccacatc	ttgaatgctt	8460
tgctgcttca	aaatttatgg	ccacgcttgg	tggctcacac	ctgtaatccc	agcactttgg	8520
gaggcctagg	tgggcagatc	acgagatcag	gagatcgaga	ccatcctggt	caacatgggtg	8580
aaacccatct	ctactaaaaa	tacaaaaaaa	ttagcttgggt	gtggtggcgc	agacctgtag	8640
tcccagctac	tggagaggct	gaggcaggag	aattacttga	acctgggagg	cagagggtgc	8700
agtgcagcca	gatcatgcc	ctgcactcca	gcctgggtgac	agaataagat	ttgatctcga	8760
aaggaaggaa	ggaaggagga	aggggaagaaa	tgtcttcccc	ccagatgtcc	tgggtcatcc	8820
ctcttatgtt	caaacttcaa	cagatcccta	gggcatgaaa	ataatacagc	caaattattt	8880
gctaaggcat	aacgaaagtg	acctttgctc	cagttcccaa	taagttcctc	atttccatct	8940
gagactcatc	accctggcct	tggcttgctc	atatcactgt	cagcattttg	gtcacaatca	9000
tttaaccagc	taatcgggag	gctgaggcaa	gaggatcact	tgaacccagg	aggttgaggc	9060
tgcagtgcag	tgtgatcaca	tactgcagct	ccagcttggg	caacagagca	agatcctgtc	9120
tcaataaata	aataaataaa	tacataaata	acttaagttt	atttaaaagt	gcacttttgc	9180
caccatggag	aaaggccagg	ccagctcctt	ctctctttct	gcacgtgttc	ctcccacctc	9240
agctgcctct	gctcctcaag	gaggaacaga	gggagtagga	aaggccatcc	caggaggccc	9300
agcaccccat	gacctggctc	tggggccttg	tgggtttatg	gattcccagt	gctgagtcac	9360
cctcacagg	ctcttggtgg	caccttgga	attggtcaga	agcatgtggt	ccccgggaac	9420
acaccttttc	ctgatcatct	gggaagggca	gcttggtgcca	gcgaggccac	ctgttcagcg	9480
ccacggcccc	ccagacagct	gcagccacag	ccttgccctt	gatcagagca	aacaccagac	9540
atgtgtgtca	tgcccccaac	ccatctccag	gggacacatg	tcctttcttg	ccaggcctga	9600
gatgaacaag	agagggacaa	gtccccaaag	ctctctctcc	ttcctgcctc	accactccg	9660
ctggttagatt	ctcaagggtg	atggtgggct	aactagggca	accgaccatc	ctggtttacc	9720
tagaactgag	ggggcatttt	caggaataaa	actgcaaaag	tctggagcaa	acaggagcaa	9780
gttggtcact	ctggggctgg	tggagtcagg	tttccctctg	caggccccct	ccccgcaagc	9840
atgggtggaa	cccaggacag	gaacacagag	caggccccag	gaccgggctt	gtcacttaca	9900
agtctttttt	tttttttttt	ttttgagatg	gagtcttgct	ctgtcatcag	ggctggagta	9960
cagtgggtgcc	atcttagctc	actgcaacct	ctgccttctg	ggttcaagtg	atccccctgc	10020
ctcagcctcc	tgagtagctg	ggactacagg	tggcaccacc	acgcccagct	aattttttgt	10080
atttctagta	gagatgagat	ggccaggctg	gtcttgaaact	cctgacctca	agtgatctgc	10140
ccgccttggc	ctcccaaagt	gctgggatta	caggtgtgag	ccactgtgcc	tggccccact	10200
cacaagtctt	aaaccatgcc	tcagcacatc	aatgccattt	acaaaaaggt	agagggattt	10260
tccaggcaaa	aatagatgaa	agacatagga	tgattgatca	tgtcctgctt	aaacataggt	10320
ctgatgctat	taagaattga	gggctgggag	cggtggctca	cgctgtaat	cccagcactt	10380

tgggaggccg	aggcgggagg	atcacgaggt	caggagatcg	agaccatcct	ggctaacacg	10440
gtgaaacccc	atctctacta	aaaatacaaa	aaatggccgc	gcgcggtgac	tcacgcctgt	10500
aatcccagca	ctttgggagg	ccaaggcggg	cggatcacga	ggtcaggaga	tcgagaccat	10560
cctgggctaac	acagtgaagc	cccgtctcta	ctaaaaaata	caaaaaaaat	tagccaggca	10620
tgggtggcggg	cgctgtagt	cccagcaact	tgggaggctg	aggcaggaga	agaatggtgt	10680
gaacctggga	ggtggagctt	ccagtgaagc	gagatcacac	cactgcactc	cagcctgggc	10740
gacagagtga	aactccatct	caaaaaaaaa	ataaataaat	aaataagaat	tgttagtatt	10800
ttgcagggtgt	gacaaatgat	tctgtttctg	tggcagaatg	ttctcaggag	atctcttttg	10860
aactctcatg	gaaagcatca	tgtgtttggc	aacatcacat	ttatttttat	ttatttatta	10920
tttttttagag	acagggtctt	gctctgttgc	ccaggctgga	gtgcagtggc	acaatcacag	10980
ctcactgcag	cctcaacctc	ctgggctcaa	gcaatcctcc	tgcctcagcc	tcccaaagta	11040
gctgggacca	caggcgtgag	ccactgcact	cagcccaatg	taccttcaat	atttacatatt	11100
ctggcaaagg	tagcaaaacc	ttaacaaatt	ttgaatctag	ataataaaat	tatgaggctg	11160
ggtgcagtgg	ccctgacagg	gatggctcac	atctgtaatc	tcaacatttt	gggaggccaa	11220
ggtaggcgga	tcacctgagg	ccaggagttt	gagaccagcc	tggccaacat	ggtgtaaccc	11280
tgtctctaac	aaaaatacaa	aaaaattagc	cagacgtggg	ggtgcacgct	tgtcatccca	11340
gctactaggg	aggctgaggc	aggagaattg	cttgaacccg	agaggcagag	gttgtgatga	11400
gccgagatcg	cgctcattgca	ctccagcctg	ggcaaaagca	agagcgaaac	tctctctcca	11460
aaaaataaaa	aaaaataaaa	ttaatgaatt	aattaaaata	aaataaaata	atggatagtc	11520
actgtaaaga	aaaaataaat	gtatatatca	gccaaacagt	gatggaatag	agcaccatct	11580
ctccctggct	ggacagatac	atcccacaac	acctggaagg	cggctccatg	tagaactttc	11640
tggactgctt	gaggtgctgt	gctggagcac	ggtgacagag	gagctggacc	atggacctcc	11700
cccggccccc	accaagggcg	aggccccct	gtggtgggtc	tgaggggagg	atccgtatgg	11760
cctctgcggc	ttgggcaggg	aatttggggt	ccaagtactt	ggtgcaaagc	ctggaaagag	11820
ggtttgggtg	ctgagggcat	atccccctgg	ccacatgggg	gcagaagtgg	ggccccctga	11880
agcttgaggt	cctgggcagg	ggcatctatt	ttgctgtctg	aggccttcag	tacttgaagc	11940
aaaatggagg	cagaatgtcc	caccttaatg	cccctgattc	ctccaaacca	attccagaga	12000
cagcaagggc	cagaacaggg	atggccctgc	ccagggtcat	gcancgagga	agtggccagg	12060
ctgggatctg	aaccagggct	aatccccctc	cttgtcctcc	tccaggccct	cacccttgca	12120
tagagccctc	cagctcactc	atcctcggcc	agctccatct	cctcagcttg	taaaccctcc	12180
cgggattttc	ctttcttaaa	aaacaaaggc	ttggccaggc	acggtggctc	acgcctgtac	12240
tttgggggtg	gctcccagca	ctttgggagg	ccaagggtgg	cggatcatga	ggtcaagaga	12300
ttgagaccat	tctggccagc	atggtgaaac	cctgtattta	ctaaaaaaa	aaaaattaac	12360
tgggcatggt	ggctagctac	ttaggaggct	gaggcaggag	aatcgcttga	acctgggaga	12420
aagaggttgc	agtgaagcaa	gatcgcgcca	ctccacttta	acctggcaac	agaacaagat	12480
tccgtttcna	aaaacaaaca	aacaaacaaa	taaacaaaaa	aaggcggagc	gcgatggctc	12540
gcgcctgcaa	tcccagcact	ttgggagggt	gaggcggggc	gatcacttga	ggttaggagt	12600
ttgagaccag	cttggccaac	atggtgaaac	cccattttcca	ctaaaagtac	aaaaatcagc	12660
cagggtgtggt	ggtgggtgct	tgtaatccca	gctactcagg	aggctgaggc	aggagaatcg	12720
cttgaaccca	tgacctggag	gctacagtga	gctgagattg	cgccactgta	ctccagcttg	12780
ggcaacaaga	tttgtttctc	taaaaaaaaa	aaaaaaaaaga	ctggcccttc	cccttcagct	12840
cttcctcagg	gtccctgagc	actctacacc	cccgtctaca	ctgagcactc	caccctgctg	12900
tctacactga	gcactccacc	ctgccatcta	cactgaggac	tccacccccc	tgtctacact	12960
ggctgcctcc	cgccctcacc	tcctgctaag	gccattcccc	gctgcatctg	tcttctagat	13020
tctgcagcct	tcagcacgct	gggccccctc	tttgtccctc	tgagccacct	ccagcctccc	13080
cctgagctgc	tactcctctc	ccagcagcct	ccacccaagc	ccctccagtc	cccaagctgt	13140
cccttgcatc	cagcactgcc	cttcacagtg	ccccttccct	ccagcttcac	agcagggtgg	13200
ggcctccagg	ccctgcccac	tgtgcccac	cacaagttgt	ggtgggagct	ccgaggggag	13260
gcaggggtgt	gcatggactt	gggacgtcca	agtctgggac	caggggcagc	tggttggtgg	13320
agtgtggagg	gggatagggg	ctttcaggta	gagaggctgt	aggggcaaga	tcgggacggc	13380
ggatgtccct	aaggagggtc	ctgacctggg	aaatattgtg	cagcttcctc	tttgccattc	13440

ctggagctca	gacactggcc	ggctctcacc	ccgcccttcc	tgcaggacac	agctccatcc	13500
cagtgaattc	ctagtgtaga	catctccagc	agcacggatg	ggaaaggaag	tcatcaaagg	13560
tgccaggac	cggaggtttt	ttctggaggt	ggcagaggag	ggtgtgggtc	tcagggctct	13620
ggctgagggc	aagcgtggga	ggtcttaggt	ctgcaccagc	cccgtgaagg	ccccctctgc	13680
tccctggtgg	agtcctagag	ggaacagcag	cccctaggct	ctagcaggag	tgggtagggg	13740
cttttctggc	ttcctactgt	gccagcagga	tagctgggcc	tggcactgag	cccaaagatc	13800
acatgccggg	gcattggcgc	agtgaggaac	agacccttgc	caaagctggc	aaagaagacc	13860
ccatggggtg	cagctggtga	agctgagagc	tcaatgtttg	ggggagcctg	gcaaaagggg	13920
tcctcccttc	cctctgcagg	ccaggatcgc	aggttttccc	tacatgttgg	taattctcaa	13980
acaatcccat	ggccactgga	gcaaagatca	cagtgggcgg	cggcctcggg	agcagtggac	14040
agggcacgca	gtgcctttga	tgccagagcc	ctcgcctcaa	agtcaacaaa	ctctgcagcg	14100
gactttgcac	ccggactttg	ttttcaccat	acaaggaaag	ggacagatca	caggccctct	14160
cgtgccttc	gctgagccgg	aagctgcagc	gtgagctctc	tcaagcccca	tttctaggtt	14220
ccccaggcgc	acccttgagc	ccctactcgc	ctattaagtt	ctcctaatag	cccttcaagg	14280
tcttaattga	tgtccattag	acagagggga	aaactgaggc	gagggcaagt	gacttgaccg	14340
aggttcctcg	gcgagcaggg	cgtggagctg	agaacctcgt	tattactgct	ccccacacaa	14400
ccctctggcc	gttcttgga	gaaggctgag	ccccgggggg	gccagagtga	cccaaacc	14460
atgggcccgc	tgcggttaaca	cgtgcggcca	cgaaggggca	gcagtttccc	gcccggccgg	14520
gctctctccg	gcgctcagta	tccgtcccag	gccaagaaga	agaaactcgg	ggaggagggc	14580
ggagggggct	gcgtgggagg	gcgtggaaga	tggacgtggc	caggggagtg	gcagctgcac	14640
acagtggatg	ctgttaagat	gaagggaaaag	aacgtgggct	ccgagatcac	tggacacggt	14700
tccacctttc	ttcccgtcca	ctgcatggcc	ctgggcgggt	tgttgaaacc	ttggaaacct	14760
gtttttcctt	ttttcctttt	tttttgagac	agggctcttg	tctgtggccc	agactggagt	14820
gccgtggcac	gatcttggtc	cactgctgcc	tcccagggtc	aagtgatcct	cccagctcag	14880
cctcctgcgt	agctgggacc	ccaggatatgt	gtcaccacag	ccggctaatt	tttgtatttt	14940
tttgtagaga	cgggatttcg	ccgtattgcc	caggctggtc	tcaaactcct	gagttcaccc	15000
gatcttccctg	cctcagcctc	ccaaagtgtc	gggattactg	gcatgagcca	ccgcacccag	15060
cagagacctc	agttttctaa	cctgtgccag	caggaataat	gatagctgcc	tagcttggct	15120
gtgctgggaa	ttaagtaaga	tgaccgggta	gcaaataatga	agtattactg	gacacagagg	15180
gccccaggct	gggttagcag	cgggtggtcag	ggctgctgct	tcctggcctg	agctcgaagg	15240
agggccctca	ttaccacctg	ggtgagtcct	cgtccaagcc	tggcactgct	gcgtgggaat	15300
aacttctgcc	acccaagtgt	gcagattgtg	tgcaaagtta	agtcctgact	ctgtgggggtg	15360
gacttcgagg	cctcttcctc	ggacctgctt	ccggtgactg	cattcgcacc	tcctcctggt	15420
cctgggttaa	cacagcccag	ctttcctcct	gctgagccct	ccctgggcct	gctgtcaccc	15480
togtgccgct	gtgcctcgca	gtgccactcc	ctgtaccctg	aatactttgc	cctgcctctc	15540
cacccagctg	agagtcaggg	cccctgtgag	gctctgcccc	gcccgtcctc	cgggtttctg	15600
cctctgctga	gcacttccct	gcatgattgc	ttctgagagt	ccccccagcc	tgtgagcttc	15660
tcaggactgg	gacagcttct	caggaccgag	gcttccctgg	ctgcttgcaa	ttttacaggc	15720
gggcacattt	tcccttggcc	aacatcagag	actggacatc	tgcagatctg	tgctagccac	15780
tgagcaccca	ggcaccccag	caggtagctc	tgtaaccaac	ccattctgta	aagctgaggc	15840
tcagagaggt	gaagcgcctg	gcctggggcc	acagcctgcg	tcagctgcag	agccaggagc	15900
tgagatatgc	acctgcggct	ctgctcacag	ggtcctgcac	agactgctgc	tggagccacc	15960
tatgtagagt	caagagagtt	catgttaact	ccctctcaca	tcctcagcc	aggggtggggg	16020
ctgacgatag	acactcaggg	atggcctacc	ctccccaaca	accccgctca	ggtttgccgg	16080
atctccttgg	aagaaaagtt	ctgggcagaa	ttccaccgtt	ggcctggcct	acactctcct	16140
tagtggctta	ggaccctcag	cgggtggataa	gttgtgggca	gaagagatgc	aatcaggatt	16200
ctcacccact	caccccttgc	cagccccaat	aagctcaata	agctgggctc	ggtctgagga	16260
agtgtccagg	aaatgtgcaa	atggcctggg	acagccctgt	gttcctttca	gtaaggttgc	16320
tgaaggtgag	gctgaaagtt	ggagaaacag	aagccagtgc	ttatggtttt	aattaagata	16380
atggaatgta	tgtatgtatg	tatgtatgta	tgtatgtatt	tatgtattta	tccttagaga	16440
tagagtctca	ctctgttgcc	caggctggaa	tgcggtgaca	caatcatagc	tccttgacgc	16500

ctcgacttcc	tatgccccaa	tgatcctcct	acctcagcct	cctgagtagc	tgggactaca	16560
gacacacgcc	aactatgcct	agctaatttt	tatttctatt	ttttgtggag	actgggttct	16620
cactttgttg	cccaggctgg	tcttgaaccc	ctagcttcaa	gcaatcctcc	tgccctcagcc	16680
toccaaagtg	gagggattac	aggtgtgagc	caccacacct	ggcctggaat	ttatttgtat	16740
tctgcttata	aaattaatac	attcttattg	cagaaaagtt	tgaaaataaa	agaaaggaca	16800
aagaacaaaa	agcgtatata	atttcacagc	tcagatctca	ctgctattaa	cattttttatt	16860
tactttcagg	cttttttctt	tctaggtaca	tatgcagaga	ttatttttatt	ttattttattt	16920
tattttatat	tttattttat	attttttatt	tcattatttt	attttattttt	attttatttat	16980
tttttagagac	agggcctcac	tctgtcaccc	aggctggagt	acaatggagt	gatcatagct	17040
cactgcagcc	tcaaacacct	gggctcaagc	aatcccccca	ctcagccttc	tgagtagttg	17100
ggactaaagt	gtgagtcctg	ctaatttttt	ttactttttg	tattgacaga	ggctctcacta	17160
tggtgcccag	gctgatctca	aactcctggg	ttcaagcgat	cctcccacct	tggactccca	17220
aagtgctggg	attacaggca	tgagccacca	tgccctggcct	aaaatgccac	tttttgtcat	17280
ttactaaaa	cccatggaca	ctttgacatg	tctgtattct	atgctattga	tctgactggt	17340
ggcatctaca	tcattatggc	catctatcat	ctatcataat	ccattttaac	attaaaattg	17400
tgetgctget	tagatttttc	tggcctgtct	cctatttcta	ttcttccaga	taaatttttag	17460
aatcatttta	tcaaattccc	cttgccagaaa	aagccctatt	ggattttggt	tgaaaaatac	17520
tgaattttta	cattaactta	ggaaagggct	gggcacgggt	gctcacgcct	gtaatcccta	17580
cacttttcga	ggccaaggca	ggtggatcac	ttgaggttgg	gagtttgaga	ccagcctggc	17640
caacatggtg	aaactcggtc	tttactaaaa	atacaaaaat	tgccaggcgc	attggctcac	17700
ctgtaatccc	agcaactttg	gaggccgagg	tgggtggatc	acgaggtcag	gagatagaga	17760
ccatcctggc	taacacgggt	caaccccgtc	tctcctaaaa	atacaaaaaa	ttagccaggc	17820
gtggtggtgg	gcgcctgtgg	tctcagctac	ttaggaggct	gaggcaggag	aatgggtgtga	17880
accagggagg	cggagcttgc	agtgcagcaa	gatcgcgcca	ctgcactcca	gcctgggcga	17940
cagagtgcga	ctccatctca	aaaaaaaaata	ataataataa	tacaaaaatt	agccgggggt	18000
cgtggcggtg	acctataatc	ccagttactt	gggaggctga	ggcaggagaa	tcgcttgaat	18060
ccaggagggtg	gaggttgcaa	tgagcagaga	tcgtgccact	gtactccagc	ctgggtgaca	18120
gagtgacact	ctgtgaaaaa	aaaaaaaaaaa	ttctgaagga	ttgagactct	tagactctta	18180
ggtcttcccta	tccaagagca	caatatagct	tttcatgtat	tcaagccttt	ttcaatgcat	18240
caacagaatt	ttacagtttt	tttcatgata	tctgtctatt	tcttataaaa	tgtattcccta	18300
gatattctgc	atgtttttccg	gttggtttgtt	aataaatatt	tttcatttgt	cattattttcc	18360
taattggctg	ttatttgtat	atatgacatc	tgttgaattt	tttgattact	ttgaaaatgg	18420
ccattctttt	gtgttttttt	ttactttctt	attttgagat	aattttgact	tacagaagat	18480
ttgcaaaaat	agtacagaga	gttcctgttt	cccccttatg	ttaaccagct	ttctccttat	18540
gttaacatct	tacataacta	cagaacaatt	gtcaaactca	agaatcaacc	tgggcacaa	18600
gctattaact	aaactgcaga	agctgttcag	atctcaccag	ttcttctact	gctccccctt	18660
tctcttccag	tgttcaatcc	ggaatcctac	attatattta	gttgctattt	ctctttgggtg	18720
tcttccaatc	tgtgacagtt	cctcagtcct	tctttgtctt	tcagactttt	catttttttta	18780
tacttttgaa	aaatactggc	cggttgtttt	gtagaacgcc	ctcagtttgg	gtttgcctga	18840
agttttttgt	gattagatcg	aggtcatgca	ttattggaga	gggtgccacc	gcctcgatgt	18900
gcaagctcaa	tgcatcatat	cagaggggtt	gtaatgtcag	tttataccgc	cggagaccct	18960
aacctggagc	atttcgtgaa	ggtgctgtct	gccaggattc	tccactagaa	agttactatt	19020
tttccctttt	taattactga	atgtctgagg	ggaaataact	tgagactatg	caaatatcct	19080
gtttctgctt	taacttcggc	tactaaagtt	tagcattcat	ctatggatct	cgcttatagc	19140
aagtattact	gtggagttct	aatggtaatt	ttctgtttct	ctcattcctt	caacctttat	19200
taatattgctt	cttctcact	tattcatttt	gtttcagttg	tttataccaa	catggatttg	19260
tggatattgg	ttttattctt	tgggttgcaa	ttgaatccta	tcattatttt	gttagtcagt	19320
tgttccatcc	gaccttggtc	attaggagcc	cttgaaattt	ggctcccatg	cctttttttt	19380
tttttttgag	accgagtctc	actctgtcac	ccaggtttga	gtgcagtggc	atgatcttgg	19440
cttcctgcaa	cctccgcctc	ccaggttcaa	gcaattctcc	tgccctcagc	tctgagtag	19500
ctggtattat	aggcgctcca	ccaccttgcc	cggctaattt	tttgtatttt	tagtagagat	19560

ggggttttat	tatgttgcc	aggctggtct	caaactcctg	acctcaggtg	atctgcccgc	19620
ctcggcctcc	caaagtgcctg	ggactacagg	cgtgagccac	cacacctggc	ctcctatgcc	19680
attttaacat	gcccgtcttt	tctttttctt	tctacttttc	tgtgactgta	agaagctcca	19740
ggatacattt	ttgctgccct	agacttagcc	tcaatcagtt	ctcagaaaag	ctctggttct	19800
ttttatggga	tacttagaaa	actagctctg	tatggcctgg	cgcggtggct	cacgcctgta	19860
atcccagtac	tttgggaggc	cgaggtgggc	agatcacaga	tcacgaagtc	aggagatcaa	19920
gaccatcctg	gctaacatgg	tgaaactctg	tctctactaa	acatacaaaa	aattagtgca	19980
ggcgcggtgg	cgggcgccctg	tagtcccagc	tactcaggag	gctgaggcag	gagaacggca	20040
tgaaccgggg	aggcgagct	tgcagtgagc	cgagatcggc	agccactgca	ctccagcctg	20100
ggccacagag	cgagactccg	tctcaaaaaa	aaaaaaagga	aaaagaaaaa	agaaaactag	20160
ctctgtatgc	tagttttttt	tttaagacag	ggtctctctt	gccccagctg	gagtgtagca	20220
gcacgatcac	agctcactgt	agcctcaacc	ttctgggctc	aagcaatcct	cctgcctcag	20280
tctcctaagt	agctgggtct	acaggcatgc	accaccgtac	gtggcaattt	ttaaaaactg	20340
tttgtagaga	tggagtctcc	ctatgttgcc	tggctctggaa	ctcctggcct	caagtgatcc	20400
tcctgcctcg	gcctcccaaa	gtgctgagat	tacaggcatg	agccactgta	cctggcctgg	20460
ccaaggtctg	tcttttttta	aaagaagttg	ttgtatagtt	gttttttttt	ttattttttt	20520
ttctgagacg	gagtctcgct	ctgtcgccca	ggctggagtg	cagtgggtgcg	atctcggtct	20580
actgcaagct	ccgcctccca	ggttcacgcc	attctcctgc	ctcagcctcc	cgagtagctg	20640
ggcctacagg	cgcccgcctac	cacgcccggc	taattttttg	catttttagt	agagacgggg	20700
tttcaccgtg	ttagccagga	tggctctgat	ctcctgacct	cgtgatccgc	ccgcctcggc	20760
ctcccaaagt	gctgggatta	caggcgtag	ccaccgcgcc	cggcctgttg	tatagttttt	20820
atctcgagtt	ttctagcgat	ttaatcatat	tggttacaaa	aaaggatgat	tttactacct	20880
cctttccaat	gtttctacat	attttttcat	tttatctaac	tgcattttta	aataaaactt	20940
taattttaga	atggtttcat	atttacagaa	aatgtgcaaa	gatagtacag	agagttcctg	21000
tgtactccac	acccggtttc	cttattatta	tcttaacgtg	atacacaatt	aataaaccag	21060
taacattatt	attcactgaa	gtccacactt	tctttttttt	tttttctgag	acggagtcta	21120
cttctgtcac	ccaggctgga	gtgcagtggc	gcaatctcgg	ctcactgcaa	cctccacctc	21180
ctgggttcag	gcaattctgt	ggctcagcat	cccaagtagc	tgggaataca	ggtgcccgc	21240
accacgccc	gctaattttt	tgtattttta	gtagagatgg	ggtttcacca	tgttagccag	21300
gatggtcttg	aactcctgac	ctcgtgatct	gcctgcctca	gcctcccaaa	gtgctgggat	21360
tacaggcgtg	agccaccgcg	cccggcgctc	atactttctt	tagatatcct	tcctttttac	21420
ctaacgtcct	tcttctgggt	caggatccca	tccagaaagc	aacattaccc	ctcgccatca	21480
cgtcttcaca	ggctcccctt	gacgggaaga	gttctctcaga	ctttccttgt	ttttgttgac	21540
cttgacagtt	ttgaggagga	ctggatctct	agtctgtttt	gtgctgctat	cacagactag	21600
ctgagaccga	tacatgatac	atgaaaaaaa	atgtattctt	acagttgtgg	aggctgggaa	21660
gttcaagacg	aagttgctgg	ttggtttggt	ctctggtttc	aagatggcgc	cttgctgctg	21720
catcctctgg	agaagaagaa	tgcggtgtcc	tctcactgca	gaagatggaa	gcgctaaaag	21780
gaatgaactc	cctttgccaa	gccattttat	aatgggcatt	aatccacaaa	ggatgaaacc	21840
ctgagaaaaca	tcaagcttta	aagcactggg	tctcaacctt	tttgggtctca	ggagcccttt	21900
atactcttaa	aacgttttga	ggatcccaaa	aaaaggcttc	tacaggttcc	atcttttaat	21960
atttaccata	tcaaaaatta	aactgaaaaa	attttaaatt	atttattcat	ttaaaataac	22020
aaggataaac	ccattacatg	ctaacataaa	tcatgtattt	tatgaaaaat	agctatatatt	22080
atcaaaaacaa	aaattagtga	gaagagtggc	atgtataatt	ttttttgttt	attttttgtt	22140
tttagatgga	atcttattct	gtcgcccagg	ctggagtgea	gtggtgtgat	ctcggtcac	22200
tgcaagctct	gcctcccagg	ttcacacccat	tctcctgcct	cagcctcctg	agtagctggg	22260
actgcaggtg	cctgccacca	cgcccggcta	attttttgta	tttttagtag	agatggagtt	22320
tcaccgtggt	agccaggatg	gtcttgatct	cctgaccttg	tgatccaccc	gcctcagcct	22380
cccaaagtgc	tgggattaca	ggcttgagcc	actgcgtctg	gcctaaattt	ttgtgaatgt	22440
ctttaatgcc	tgcttctca	tatttgtttc	tgcattcaag	ttattgcaaa	atgttgtgtt	22500
ggttgaagtt	tgtaaagaaa	atgtggcctc	atacagttgt	gtagttggaa	aggcaagagt	22560
atttgatctc	tctcttcaaa	caactatgga	caacctgctg	ttacaaaacc	agaatgcaaa	22620

aagttgtagt	aaatacaggt	taggtgtagt	gtggaatctg	aaagcatgtg	aatgaacttt	22680
ctgagttttg	taacattaaa	gtccagttgc	gttaagctac	tgtgatagca	tatagcattg	22740
tcctaatact	ggaattagta	tcagaagtgg	ggtgctactg	ttaataaata	aaaagaaata	22800
aataaatcat	gtgatactgg	ctcagaagtc	aggcagtagg	ctgtgtggaa	cctgacatca	22860
cgccatgtaa	tacattggca	accatttgat	ccagctgtct	gtcatgatga	cttggaaagt	22920
caaccacata	cttacagagc	ctgtagacat	aggggaaaat	agtataaaac	agaataactaa	22980
cagtggaact	tggttcttgc	cagttgcatt	tagccaaata	ttaaacaata	gagatattct	23040
tgggcagcaa	ctggaccatc	ttcaagtaaa	agtgaagggt	aataaacaga	gtccagacat	23100
ttgtgccc	gcgggttaag	aaaaatccag	ttgtctctag	acaccgtata	tgaaaacaac	23160
gctgaaaaca	agcctttgag	tggtaaaggc	cgattaacac	tcagcgcggt	aacaaagacc	23220
aggtgggcta	acccgaaatg	aaatgagaag	cctgtggtga	tgaggaggca	gagaagtaaa	23280
atcaagtttg	agcatttcgt	ttaggagagt	ttgggtctctg	attacttgca	catgcaaacg	23340
aactggaaac	aaacagatca	gatgtctacc	acttcttcga	gggaattgca	ttgccaaaga	23400
agtcatgaaa	gcagactcta	tactgattag	gcattaaaac	aaaaacaatc	tttaggcccc	23460
taaaacttgca	tgggcaggaa	gtgggctgtc	aaagctgttc	atcctctaag	gtggacctag	23520
ttcctagttc	ccagtataca	cttcagatgt	ggccctggag	gacactggac	atggaggacc	23580
tcccagagga	tgaggctagg	gcttcatttc	tccaatgacc	tcagctgcct	ctatttcccc	23640
ttcttctctc	ggaagtccca	tcacgttat	tattattatt	atcatcattt	ttattttgag	23700
ataaggcttc	gctctgttgc	ccaggctgga	gtgcagtgac	atgatcatgg	ctcactgcag	23760
ccctcccagg	ctcaagtgat	cctcctgcct	cagcctcctg	agtagctggg	agtacaggca	23820
catgccacca	tgcttggtcta	tttttttttt	cagtagagat	agggtctctca	ctatgttgcc	23880
agggtctgac	tcaacctcct	gggttcaaga	gacccctcta	cctcagctcc	tgagtagctg	23940
ggattcgggt	gcacaccacc	atgccaacta	atttttaatt	tttttttgta	tggacaggat	24000
gtacagtgtt	agaaatggat	tgcttgccaga	ggcaggagga	tcacttgagc	ccaggagttt	24060
gatcacactg	tgaacctga	tcgcacccct	gcactccaat	ctgggcaaca	gagtgaagcc	24120
ttgtctcaaa	aaaaaaaaaa	aagagagaga	gagagagact	caaagatagg	caaaaaagtg	24180
ggaaagcttt	atagtggaca	aaaaggaacg	ctctaagtct	gccctatttg	catggtgctg	24240
aagggtgggt	aactagagat	aggggttact	atgtggttga	ctatgggtgc	atctttgggt	24300
ttccctgggt	gacctaagt	tggaaagcag	gacaaaaatt	agggaagctg	ttagttattc	24360
atcacgttct	ggcagtagtg	gactggttgt	gatagaagtt	attgttttgg	ccagggtgcg	24420
tggctcatgc	ctgtaatcct	agccctttca	gagttcaacg	tgggtggatc	aggaaggagg	24480
gaggatttgg	gaggtcagga	gttagcctgg	ctaacctggc	gaaatcccat	ctctactaaa	24540
aatacaaaaa	ttagctgggc	gtggtggtgc	atgcctataa	tcccagctac	tcgggacgct	24600
gaggcaggag	aatcagttga	acctggggag	gcggagggtg	cagtgaagca	agatcgtgcc	24660
caatttcac	tcaaaaaaaa	aaaaaaagtt	atcgtttagc	ttcctcgatt	gttactggac	24720
gtagtaatct	ggcttctctg	aagtctaact	ttcagcagac	tggctacatg	ggctgtgtac	24780
tgtagataag	gcagtaagta	aagcaaaaaat	tgatagagca	tcaaggataa	atagaaaaatc	24840
cgtaatcaag	cagaagattt	gaacacttca	ctttcagtaa	ctgataaaaac	aagtagacaa	24900
aaaaaatcag	taaggatgta	gaagatttga	acaacgtaat	taacaaaactt	gacttgattt	24960
acacgtctag	aaccctgcag	aacacacact	ttttcaagca	tactcagaac	atttatataa	25020
agtgaccata	tgggtggacca	taaagcagtt	tcaacaaaatc	tcacaggagt	aaaataacag	25080
accgtgtttt	ctgaccgtaa	gtacagttaa	cctagaaatt	gaaaacaaaa	agctagaaaa	25140
accccatgta	tctggaaatt	ttaatatata	ctttgaaata	acaaatggat	cagagattaa	25200
ttcaaatagg	aatttagaaa	taccttgaac	tgaaaaataa	tgagaatact	ataccccaaa	25260
actgtggggg	gcagctgaac	agtatataga	cgaaaagtat	actcatatgt	gcatacctta	25320
aggagcgggg	aggattgaaa	gttaatggga	ggcaaaagca	ggtggatcac	ttgagggttag	25380
gagttcaaga	tcagcctggc	taacagggtg	aaaccccatc	tctactaaaa	atacaaaaaa	25440
ttatccaggc	gtagtgaggc	tgaggcaaga	gaatcggttg	aaccaggag	gcagagggtg	25500
cagtgaagcc	cgattgcgcc	actgcacccc	agcctgggag	acagagcgag	actccatctc	25560
aagaaagaaa	aaaaaaaaag	aaaaggccag	gcgcggtggc	tcatgcctgt	aatcccagca	25620
ttttgggagg	ccgagggtgg	cggatcacga	ggtcaggaga	tcgagactat	cctggctagc	25680

acggtgaaac	cccgcctcta	ctaaaaatac	aaaaaaatta	gccaggcgtg	gtggcgggtg	25740
cctgtagtcc	cagctactca	ggaggctgag	gcaggagaat	gtcatgaacc	caggaggcag	25800
agcttgcagt	gagccgagat	cgcgccactg	tactccagcc	tgggcaacag	agagagactc	25860
tgtctcaaaa	aaaaaaaaaa	gttaatggga	taaacatcca	tctcaagaag	ttagaaagga	25920
atgacaaata	aaccaaaaaa	aaaaaaatca	aaagaagaaa	atcataaggt	caagactata	25980
aagagagtgg	ctgggtgcag	tggctcaggc	ctgtaatctc	agcatttttg	gaagcagagg	26040
tgggcagatc	acttgagccc	aggagttaa	gaccagcctg	agtaacatag	agagacctca	26100
tctttgctga	aaataaaaaa	aaaaaattag	ccaggcatgg	tgggtactgag	gtgggaggat	26160
cacttgagcc	taggaggttg	aggctgcagt	aagccatgat	tgtgccactg	cacttcagcc	26220
tgggtgacag	agtgggaccc	tgtctctaaa	aaactaaaaa	aaggctgggc	gcggtggctc	26280
aaatctgtaa	ttccaccact	ttgggaggcc	aaggctgagg	tcagcagttt	gagaacagct	26340
tggccaacaa	gatgaaacct	catctctact	aaaaatacaa	aaaattagtt	gggtgtggtg	26400
gcatgtgect	gtaatccag	ctacttagga	ggnnnnctnt	ngattatatt	ttctccttcc	26460
tacgtcgtaa	ttggactgaa	ttcagaatga	tgactctcat	tggagctctt	cctgtctcct	26520
aactacagtg	gcttccgacc	ccactctggt	tttcacttca	cccctctgct	gctcatacga	26580
gtagatactt	ccttccttct	ttctcacttg	ttgctcttcc	tcaaccccc	ccgttggtgt	26640
cccctcctct	ttatcttttt	ctcgcgacac	ctgcgttctc	ttgccctctt	atcatccctt	26700
tctcgaggcg	gtcctttcct	ttatccagct	taaatacctt	ctcctctggt	tatttggggg	26760
ttgggttttt	atctctcacc	ctccctctaa	tttctttcct	ctttccgcac	ccatcaagcc	26820
tctcgtggtt	tctcttcctc	tactctcggt	tccccccct	ctccccctct	ttttttcttc	26880
acccccccaa	gcgctttgcc	tttttttctt	ttgcccttta	ttcccccc		26928

<210> 7

<211> 29430

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (4336), (4345), (4349), (4392), (4447), (4490)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 7

aggggaagg	ccggctccgt	agctcacacc	tataatccca	gcactttccg	aggagagagg	60
atcatctcag	gccaggagtt	caagaccagc	ctgggcaaca	cagcaagacc	gcatctctac	120
aaaaacttct	tttaaagctt	aaaaaaaaaa	aaaaaagcaa	agaggacagt	tcaggagaaa	180
agcctgtaga	ggcagcacac	taaggaggag	acgcagccca	ggcaccagga	ggggctggcc	240
atgggcactc	actcctccag	caggcgagtg	cccagcacca	gctggcccac	ccagacaccc	300
aggacacggc	ctgaatggct	ccgtattcac	gtgggtggta	ataaacaagc	aatacacata	360
gccaataagg	acaccttagt	aatgttacat	cataaacgct	gcagatcagg	gaaatggtgc	420
agggtgaagt	gggttggggg	gctgcatgct	acatgagaag	tgggtcgggg	ggctgcatgc	480
tacctgagac	agagcaggcc	ttgctgggaa	agaaggagcc	ggcaggcctg	ggcaaaggtc	540
ctggggtggg	agcacactgg	agcagagtgt	gggggtagca	tggcgggtgc	tggctcctctg	600
ggcgccctcc	caccacgtca	tgtgcccatg	tgcccaaggt	ctctcgtttc	acagccccct	660
gaagctcagg	ggtcacagct	acacagcccc	cagatacctt	ggcctgcccc	aggctattcc	720
atccagtgat	ggacctgctg	acctctagcc	tgacctctgg	gcagcgtaat	ttgagaagga	780
ggagaaggga	gggcaacaga	cctggggcga	tgagggatgc	acagggtggc	agacacctga	840
ggctgcacct	tggagcctca	gttctgggtg	tgggtggggg	atggacaggc	tgagggtctga	900
agcagctggg	cccgccacc	atcacacccc	aggaccaccc	agatcaccat	gaaaaaccga	960
atgtcaactg	gcagcccaga	gtgcagaaca	aacctttcag	aaacacgggtg	gtgactgccg	1020
catcatgaac	ataaaataat	tacgccctct	ccccagggat	cacccttgca	ggagtttgtc	1080

ccaagaaaca	ccagaaagaa	ggaaaaacgtc	tgagtcacaa	tatttgctga	ggccttattt	1140
gtaatagcaa	aaaaaaaaaa	aaaaaaaaagaa	caatctccag	cggcaggggt	aactagacta	1200
ttgtctccgt	ggaaaggtag	caccaattaa	ctagtaacaa	aatgactgcg	gtaacaacaa	1260
aacgttcgac	atgtcaacac	caaaaaccac	acaccagca	taaccgtgaa	ccatgatttc	1320
tactagaatg	aatggcagtt	atgagaaaagc	accagcggag	acaaagattg	aaaaagtaaa	1380
ggtggcctca	ttagggagac	aagtctctgg	gtaatatatt	gtaatactgg	taaatatata	1440
gtttttaata	tatttttttaa	ttccaaattc	catatatgtt	cctatgaagc	tatttctgca	1500
aatatttttt	tcaggaccgt	acatcacaaa	ggcaaaaagg	ccaggtcagc	tctccagctg	1560
agagtgacca	cttcagagca	gacggcagac	tccagggtta	gcaagcctgg	ctgagacctg	1620
gcccattgaca	atcactcaac	ccctctgacc	tcaacatcct	gtctgtgaaa	tggggataat	1680
tactgcacct	ccacatcaca	gagtgcgagg	cttaaacagg	atgcttcata	gaaaagcgct	1740
caagaggtaa	cagccgggag	ggggtagtgg	ttttcattaa	ttaaagtgtg	ccttcaccca	1800
gccctggggc	agctccaaca	caaagcacac	accatccact	cagactcagt	tgcttggtt	1860
caaagcccgg	cctggcctcc	agctgtgaga	ttccgggcag	gatttcccat	ctcccagagc	1920
ctcagtttcc	tcatcatga	aacaggaagt	gatcattcct	tttattttta	tttttatttt	1980
tattttgaga	cggagtttca	ctctagtgtc	ccaggctgga	gtatgatggc	gcaatctcag	2040
ctcactgcaa	cctcggcctc	ccagtttcaa	gcgattctcc	cacctcagtc	tctgagtag	2100
ctgggattac	aggcacacgc	caccacgccc	agctaatttt	gtatttttag	tagagacggg	2160
gttttgccat	gttggtcagg	ctggtctcga	actcctgacc	tcagggtgatc	cgcccgcctt	2220
ggcatcccaa	agtgtcggga	ttacaggtgt	gagccacca	gcccagttga	caactgcttt	2280
taaagacacc	tctggctgct	gtggaaaaca	gcctggtagt	gcctcaaaaa	gttacacata	2340
gaatgatcct	atgaccagta	attccactcc	tacatatata	cccaaaagaa	ctgaaccctt	2400
ctactcatgt	atgtacacat	acaggtacac	gcatgttaac	agcagtgttc	acaaagccaa	2460
aacatggaaa	cagctcaaat	gtccataacc	gatgaacgga	taaatgaaac	gtagtctatt	2520
caccacctga	cggaggtag	aggggccata	aaaaggaatg	atgcataaaa	acgaatatta	2580
tggccaggta	tgggtgctca	cgctgtaat	cccaggactt	tgggaggctg	aggcgggcgg	2640
atcacgaggt	aaggagtctg	agaccagcct	ggccaacacg	gtgaaacccc	atctctacta	2700
aaaatacaca	aattagctgg	gcatggtgga	gggcgcctgt	aataccagct	actccggagg	2760
ctgaggcaag	agaatccctt	gaacctggga	aacagagggt	gcagtgagct	gagattgcac	2820
cactgcactc	cagcctgggc	gacagaccaa	aactccgttt	cggaaaaaaa	agaaaaaatt	2880
agccagggtg	ggtggcgggt	gggtccctgt	aatcccagct	ctacttggga	tactgaggca	2940
ggagaaccac	ttgaaccogg	gaggtggagg	tagcggtag	ctgagattgt	gccactgcgc	3000
tccagcctgt	gtgacagaag	gagactctgt	ctctaaaaaa	caaaaacaaa	aaaggcccg	3060
cgcggtgtct	tacacctgta	atgccaacac	tttgggaagc	caaggcaggc	agatcatctg	3120
aggctcaggag	tttgagagca	gcctgggcaa	cacggtgaaa	ccccatctct	actaaaaata	3180
cagaaattag	ccagggtgtg	tggcacatgc	ctgtaatccc	agctactcgg	gaggctgagg	3240
caggagaatc	gcttgaaccc	aggaagcgg	ggttgcagtg	agccgacatt	gcaccattat	3300
actccagcct	gggtgacaga	gtgagattct	gtctcaaaaa	aaaaaaaaaa	aaaaaaaaaa	3360
ctaaacaaa	gcaaaaaaac	caatgagtaa	tgttgtcaag	tgaacttcat	cccaatggga	3420
atgcagataa	tttgtttaaa	aggcaccatg	cacactgggc	aggctggctt	cccctgggaa	3480
cgtcttcttt	tgcttggtt	cccagttggt	ttaatcgggc	gtagaacact	ttcttcaatc	3540
cgggattcag	gcacccctgc	tcagcacaaa	ctcagtacac	cccgcactct	gctgtgggtt	3600
cttggcacta	ttaggagaat	gtgagggggt	gattcagatc	tatctctagt	gggtgcatgt	3660
ctgccactcc	caggaacgcc	cacttctggc	aagtcagtgt	cagagaaagg	ccagctcgtg	3720
gcccctcctg	ccttgagtcc	caggaccgtg	gatcagtcct	acccggagca	gaatcaggag	3780
tttgaaaacc	caagtgccaa	caatctcatt	ttaacccatg	taagcatatc	caatatttat	3840
atatagaatt	cataacagat	gtctgggctt	ccattccaat	agcctatatt	ttacactgtt	3900
tatttacatg	gttacaccaa	acaagactca	attcaaggta	acccaatcct	ttgctactat	3960
acaaaataa	gcaacatttt	cagtccatgc	cttatatata	ttcaccaagc	attacactag	4020
gcctccaact	gctcatcgga	gcaagctgca	gcctggacac	aagctagaga	ttaatcagtc	4080
aggaatgatc	ctgcgtccag	tgccagcatg	atggaagaga	cagagaaaca	gaagacatca	4140

gggctccaga	gtcaaggagc	ctgcagggtta	gttgggcagg	atatacacac	atacacacac	4200
acacgcacac	acaaaaccac	ccaagaagaa	aaggtgggat	gaatgcatgg	acaggtaatg	4260
cctggagcct	ggggatggat	aagctgactg	caggtggccc	aggcaggcctt	cctggaggaa	4320
gaagacctgg	ctgtangtgg	ggtangcang	ctttctaaat	ggggaaaatc	tggctgtggg	4380
tggagtggc	angtttccga	aaagaagaaa	agctgactat	gggtacacct	ggctgttggt	4440
ggaacangca	ggcttcttgg	aagaagaaaa	tctggctgtg	ggtggatcan	gcaagcttct	4500
tggaagaagt	aaacctgact	atgggtggac	caggcaggct	tcctagagga	agaagaccgg	4560
ctgtgggtga	accaggcagg	cttcctagac	agaggaagat	ctggctgcgg	ttagagtggg	4620
caggcttcta	agaagaggaa	gggctgactg	tgggtagacc	tggctgtggg	tagactgggc	4680
aggcttcctg	gaggaggaag	agctggagca	ttgaaaaaca	aacatgactt	ggtgaatggt	4740
gagcatgccc	aggcctgac	cccagaggca	attacgcact	caagttactt	aattctactc	4800
acaatgcctc	acaaacaact	tctctgacac	ctaacacagc	tctgggcacc	ttctagcttc	4860
agctcctcaa	agcagttatt	cacgctacta	ccctgcacac	ctcctcacac	cccaacccca	4920
gggacaggag	ttctgccaga	tgccaaagct	cctgatgcc	aagcctgggt	ctgcttccgg	4980
gctcctcttg	gtctaactgt	ccaccccgca	tggcatgat	gtgcaaaaac	aaggctttgc	5040
aatctgccct	gatgcctggc	ggagcgagtc	cctcccgatt	cgtctccttc	agaaacacct	5100
gggctgccct	ggtcctgtta	tacccccaac	acattctaca	gtcagctccg	caagttccac	5160
aaagatcaac	gctggcggtt	ttatggcatt	ttatttacag	tttttacaat	ataaaaaagg	5220
aaggatgcca	cagctcagcc	agcaggacag	acagagatct	atgatgcttc	tgctgcacca	5280
ttgtttgtgg	tcaagaaagt	ctgttttcaa	tgatttatta	aattgtgggtg	ggagatggat	5340
ggtggcagtg	gttaccagca	acatgaatgt	tcttaatgcc	actgaacttc	acacttacaa	5400
atggttacga	cgataagtgt	tatatgtatt	ttaccacaat	taaaaacagg	taaatgcagg	5460
ccgggcacgg	tggctcacga	ctgtaatctc	agcactttgg	gaggccaagg	caggcagatc	5520
acctgaggtc	aggggttcga	gaccagtctc	gccaacacgg	tgaaactctg	tctctattaa	5580
aaatacaaaa	attagccaga	tgtggtgggtg	catgcctgta	atcccagctt	ctcaggaggc	5640
tgaggcagga	aaatagcttg	aaaccgggag	gcagaggttg	ccatgagctg	agattgtacc	5700
attgcactcc	agcctgggtg	acaaaagcaa	aactctgtct	caaaaaata	aaataaaaata	5760
aaaataggta	aatgcaaaca	tatggtatag	taatattatg	ggctattatg	agctacaaaa	5820
aagaatgact	tgggactaca	gttacagccc	tcattcagga	atttgtttta	aatgtgggtt	5880
ggtcgctaa	gcatgtacac	aacattttga	cgttcaaata	ttcctagatt	tggacagtga	5940
gcacccctct	aagctggctc	ttctgtccca	gaggtcccca	ccagtcctcc	agaacttctt	6000
tgctttctta	cacaataaga	tgcccatg	tcggcttgta	cctttccttg	cccagccct	6060
agaaccagct	tcttcgtgga	caagctctga	ctcctttggg	tggagaatgg	tattcagaaa	6120
cccagacctg	ggctctgggtg	tgctcactgc	tacttgggg	cattgcttct	aggcctctct	6180
gctgatggag	gtaggatata	cacgtacagt	cttcctctct	cccagattcc	gtacttgagc	6240
tcgcctactt	gctaacattt	atttatatcc	cccaaattaa	acctcacagc	acttctgcaa	6300
tcactcactg	acttgacag	tgtgaaaaaa	ctgagtcacc	atcacacgtt	ccaaactgag	6360
gtcaactgag	gccacaacgc	cccatcttct	tgctccggct	gtcgagatgt	aagcaagtgt	6420
ccttctctcg	gtctagctag	tgccatgctt	tccacatcac	tgtgcttttt	gtgggcaatt	6480
ttgctgtata	aaatgtcccc	tgacatatg	ctgctgtgta	gtgctcctag	gtgcatgagg	6540
ctgccccacg	ccttacagag	agaatatgca	tgagaggctt	tattcaggta	tgagttatag	6600
cgtagtggc	catgaattca	atgttaatga	atcaacaata	tacagtaaat	aagggtgcttt	6660
ttagagacag	ggtctcactc	tgtcaccag	gcttttagagt	ccagtgggtg	gaccttggct	6720
cactgccgcc	tcaacctcct	gggctcaagt	gatectccca	cctcagcctc	ccaaactggt	6780
gggattacag	gcgtgagcta	ctgcactcag	cctaaataag	gtgtcttaga	aacacacata	6840
agacaagggt	atgggctgag	tgcgggtggct	catgcctgta	atcccaacac	tttgggaggc	6900
caagggtggga	ggttcacttg	aggccagaag	tttgagacta	gcctgggcaa	catggcaaga	6960
cctcatctgt	atattttttt	aaatcagaca	ggtgtgggtg	tgcatgccta	tagtcccagc	7020
tactggagag	gctgaggcag	gaaaatggcc	tgagcccagg	aggtcaaggc	tgcatgacc	7080
catgattgta	ccactgcatt	ccagcctggg	gtgacacagc	aagacgctgt	cttaaaaaaa	7140
aaaaaaaaaa	aagccaggctc	aggtatcgaa	cagttggcaa	aaacgttgtg	acctgaggct	7200

cacaggaacc	tagcccgatg	tttcccctag	gagcaatggg	tcagtattca	ataattcagg	7260
gttcccagtg	acttttatgga	gcataacttt	caagaataac	aagaaccaac	tgtacgtgtg	7320
tatgtatact	cacactttta	ttttatttta	ttttattttt	tgagacagag	tctcactctg	7380
tcacccaggc	tggagtaaaa	tggcgtgatc	tcgactcact	gcaacctccg	cctcccagggt	7440
tcaagtgatt	ctcagcctcc	caagtagctg	ggattacagg	tgtgccccca	caaccggcta	7500
atttctgtat	ttttagtaga	gacggagttt	cgccacattg	gccacgctgg	tctcaaaactc	7560
ctaacctcaa	gtgatccacc	cacctcagcc	tcccaaagtg	ctggaattac	aggcatgagc	7620
tgccgtgcct	agcctacata	cacttttata	cacacatgca	tctatgacta	tttctctatt	7680
tctgtgcatg	tgtgctggtg	agtacctaca	gtttcagcta	tgtgtctggg	tactgtctcg	7740
tccaagtttg	taagcacctt	ctccaaagtg	caaagcctgg	cttgtgttac	tatccatatg	7800
tttacttatt	tgtcfaatca	atttacttat	tagctccata	accagcttcc	catctgctcc	7860
agtagcctct	gctgtcagtc	acctctgcac	cctaccccac	cttgcttccg	gatgctggat	7920
gccaatcacc	cccgacacct	ctacatagca	ccaccctcga	catgctgctt	ctttatttct	7980
tattttatttg	tttgagatgg	agtcttactc	tgttgcccag	gctggagtgc	agtggcacga	8040
tccaggctca	ctgcaacgtc	cgcctcctgg	gttcaagtga	ttctcctgcc	tcagcttctc	8100
aaatagctgg	gattacaggt	gcccaccacc	acgcccagct	aatttttgta	tttttagtag	8160
agatgggggt	tcacatggtt	ggccaggctg	gtctcgaact	cctgacctca	agtgatccac	8220
cttggcctct	caaagtgctg	ggattacagg	tgtgagccac	cgcgcctggg	ctgcttcttt	8280
aatgcccagg	caccaacatt	tgtgcaatgg	gggtgggagga	aagaacaggg	aggagagcac	8340
actgccggcc	cctgcactga	atccactgat	caatctgggg	gcaactgcca	tctccatctc	8400
ctgtcttctc	atccgtgaac	atctactgca	gtcctctcca	atgtccttct	gtaaagttgt	8460
attatgtttt	gcatacaggc	cttgcatatt	agttctcaga	tataatccat	atactttata	8520
taaaattcaa	accacattta	aaaaaataaa	actagcatga	ctataacgga	gtctgcaaca	8580
ttctcacaga	ctttatgata	aaacatgaaa	cttcaaagat	acttaggggtg	gggcagggac	8640
aatgtttaag	gctgcctgga	agcctcccca	tccctgagcc	agaaaagtcct	atctcccctt	8700
caaggggaaa	tgttgaaaaa	agcactgatc	aggctaaaat	gacaggggatc	agggagtaat	8760
caaagtacaa	gtgagctggt	ctcctccatt	ctgagcacag	caaagttcag	tctctccaag	8820
tccaagaatc	atacacctgt	ttgccaagaa	tgaagttcag	gtgtctacaa	gtggctgaaa	8880
atattcattg	ctgggccatt	aacaacattc	ttggcaaaac	cataccttag	cttctcgtgg	8940
aaatttctta	aggtagaaga	aacaggaaaac	accaggctc	gcttttatgt	agacagttcc	9000
atgaagccag	ggaccttccc	cacatccacg	tttcaattac	ctgcacgcag	ctcacagtgt	9060
attcaacatc	tacgcgtctc	tcctactggg	gtggcggtgg	ccactcaaac	cctcatgcag	9120
ctacgatgac	cgcaattttg	gcaacataat	ttcatgtttt	tccttgggct	tttaccceaag	9180
tcagtgcac	aattctgcag	ttgtctaaag	attcaaaatg	agggacttga	catttacaac	9240
aataataaaa	tcttggtgtt	cctttaacca	agcacatggt	ctgcctttta	gagaaagctc	9300
tgcaaaactca	agctggagtg	ggataacttg	tgacatcttc	aagcacccca	ggaatagctc	9360
tactccccca	tttccacctt	ggctgaacca	tctatatccc	accaattccc	ccaacatccc	9420
tccatccgtc	catccatcca	cccaaggacc	tgctaagcca	ggaggtctct	cccatctacc	9480
ccacagcctg	gcctcagccc	acaagggtct	tctctacatg	aatcccaccg	caccagagta	9540
gaccaagtct	cccgtagact	ccaccctgac	cacctccatg	cctccagcca	ttcccacccc	9600
taaaaaccct	ccctgggtctc	tacacccagc	tgatgaatac	ttggctgaat	gtgacctggc	9660
ctcctggacc	caggtgaagc	ccacgtcctc	cgtaagcccg	ccagctcacc	ctgcctctgc	9720
accttcactg	gagagagccc	gcacttcacc	tcctcagggc	aggcatggct	gatgccaccc	9780
agtggaatct	ggtgcaaagc	agggcccggg	gcagagcagg	gctgcctgca	gagcaaggcc	9840
ctggtgctgg	ggccgagcac	ctccaatgct	ggccgtggaa	ccatccctcc	cattccaggt	9900
gctgtctcca	tcaagaatga	gcgagctgct	gacatttgca	tgacaataat	gaataaatac	9960
catattttgc	ttcaaataca	gaatagatgt	ggccagggtt	ggcatatgac	tgttgggaaa	10020
ggacagtttg	cctcttccca	aaccaacttg	gattataaaa	agcttttctt	aacgaccaca	10080
agagcggagg	agctcagggg	cagacaaaag	gaaggctggc	tgcagaaggc	gggagagtgg	10140
ggccttcagg	ggcgggtggg	gagagagaaa	gcctggagct	gcacccccaa	ggtctgtgta	10200
catcaggtgc	tacagaataa	caccacctct	tccagcttgg	cccccacctg	ccctctccca	10260

gcccagtcac	ccagacagca	ccccactccc	cacacacacc	tcacatctgc	ccgcctcaca	10320
ctcaccagct	tcggctctca	atgcaacctg	gaacctgccc	ttggcctctc	agctcagcca	10380
ccccattcc	tgttggtccc	tggcccccca	tcgaattctc	tctaactcta	atgcacacac	10440
ttgcacactc	aaacacacac	acacacacac	acacacacag	cccagaggaa	aaccataatt	10500
gactgaggtc	caggcaagtt	tcccagagcag	ggaccacatt	tcaaagggtca	gggaagcagg	10560
cgaacaggaa	acatacaggg	ggcacgtttg	ggggtggagc	aggaaataag	aaatcacttg	10620
caaaagataa	aaagaaaatg	aggtagctgg	tttcagacac	ctcggagcac	acagaacagg	10680
acaggcgcct	ccgggtcttc	cctcaacagg	gagatggggc	aggcagggtcc	ctgctgctcc	10740
accgcagagc	tgggggctat	ggccttgaca	ccaaggccct	ggggcaggcg	gggaggcagc	10800
tgttctcctg	cctgtgctcc	cgggcagggc	ctggccccac	aagggaactg	gccgaaggct	10860
ctgcttggtc	actccggaaa	gtcctgggag	acaagcaaag	gacttgctag	gtcactccaa	10920
acggcccaga	tgtgacaact	gtgaagaagc	cacaccaaag	caagggtgaca	gaacaatggt	10980
ggtgacgtca	ggttatcagc	ttacgtctca	ctccacttac	ccggactcac	ccgtaacctg	11040
ccgtctcttc	ccaaccagta	aaggatgcct	aggtagaggg	gcacaaggcc	tggagcataa	11100
ttaccatttt	aaaggctctg	agaagtccctg	cggtgaggaa	gcctagtcca	ctttctctcc	11160
cctaggattt	cccaactgcg	cctgatcaca	gaacattttt	tcatttccac	tcaggaaaca	11220
tattttgaaa	aacactggcc	tagaggcaga	agtgaatgg	aaaacacaaa	agtaaaactg	11280
aacaggaggc	actgggcaga	gaacggtcag	aggcgccctg	aatcctggac	cggtggagat	11340
cccagcttg	gcatgctccc	ctccctgggc	ccagaccgcc	tccccccatt	tcctggataa	11400
gaaggcta	gcgcacaggg	gtgaagggct	tgccctgggt	acacccccag	gctcgcccca	11460
caccaatcgc	gctcctgcga	gagccagtga	ctttcttgat	ttggctactg	tgggaattgtt	11520
tgcaactaac	cacccagat	acagatacaa	atgacaggat	gatcagatgt	aaaggaccca	11580
caggtctctg	tgatacggct	tcatgcagcc	agcatggcta	gtgccgtgca	gaatgagaat	11640
gacccagggc	aagtccttgc	ctcccagacc	cagaacccca	tggagcccac	cagggctggt	11700
tcacaagcac	tgtctgggtc	gggcagagat	tccagcaaga	ggagggaaca	tccatgcacc	11760
ggagccagtt	accagaagca	aatcgccctc	tccaaaaccc	aggctattaa	tggagtccac	11820
tgttgagtgg	agctggggct	tagctatgga	atactgcaca	gcagagatct	tcctgagaga	11880
aagcagtttt	ccctgaaagc	catgtgtcct	ccactaactg	tgttttaatt	gggcgaacgt	11940
ctgtatctca	ttgcagtggc	cgcgcatgtg	ctgacaaggg	gctggggggcg	gggtggggag	12000
cagaagctca	ggggcctggg	agggaaggaa	acaggccacc	agggtctccc	agaaggcatg	12060
tatctctctc	acaaacacac	gcatgcacac	acacgtgcac	acatactctg	caagccctga	12120
gttagcaact	gtggaatgtg	accagctcag	tgatcccagg	acaagctgct	agggaatatg	12180
acatttgatt	gatgtctgca	aatgtgcgtt	ttcactaatt	agaaggttta	gggcagagca	12240
gagaaaaata	tgtatttcag	agtcccagtt	tgacctgcca	gaaaccagcc	cattactaac	12300
attcttattt	tcaacaaaat	atagcattct	gattacatac	catcttggtt	ccacgcctcc	12360
tgccttgcca	agcccccgga	agcggcccaa	ggccatggca	aatagtgaga	gaaacagttc	12420
caggggtggag	actgactcag	gggtgtcagt	cagtggggcg	ctgatggccg	gtgggaggcc	12480
agcagtcac	accctctcct	tgggacagtt	gagtagctct	ccccagggt	catgtggcca	12540
ctcaggttca	tatgggaggc	gagaggagtg	gcagagtcca	ggagagtggc	tccgaagtca	12600
ctgttccctc	caggcctcag	tgtcttcac	cattaaatgg	gtaggctgag	gtctgggatg	12660
acaaggaggg	cttgacttta	ctgaaaccca	tgggaggctg	ttcgccgatt	tcttttattg	12720
atggaagaaa	acactcgtat	aattcaagta	ccaattaaaa	ggcaggcact	ggaaccaccg	12780
tctgccaat	cctagttttg	cctataccaa	atttgagcaa	gttaattgac	ctctcccagc	12840
ctcagtttct	tcgtctgtaa	aatgagggtg	gggatggccc	ccagcccaca	gggcagctgg	12900
aaggattaaa	gaaatcaaac	atctcttaga	gccacctgg	cacactgtga	tacacaacaa	12960
atggttagcta	tttttgtcta	tgaagtctag	attttatatc	ttgggtgttc	taaagcagga	13020
tacatttatt	taaaaaacaag	gattttcatt	aaacacgtac	cccacagaca	gcaaccccat	13080
ggagactgct	cttaattcag	gccagtatcg	aaacgactct	aactacaagc	tttatacagg	13140
tctcttggtc	gtccttcaaa	tccaactaag	gtggtacttc	tgaagcactg	tgcacatgtg	13200
tgtgtgcag	cacacgtgtg	ggaaggggcg	gctcacggat	ccctcaggta	ccccaccac	13260
gcagtctcaa	gtcacaaagc	gacagagcag	ccgaggaagg	tctgtgcccc	actggaccct	13320

cgtgaagcca	ccaactctac	ctctgcgccc	tgtcctgcag	actgggctac	cctttgggtg	13380
gggaccagca	tttgatgcaa	gaaaggcaga	cagaaaagga	aaagggcaag	ttcgactcca	13440
gataacacag	acagtaccaa	gccccagggc	ccataaatgc	cacgcagatg	gaagcattta	13500
ctgcgaggcc	acacagcaaa	cgcacggatc	cagggacgga	ggtgcagact	gcggtgcccc	13560
tgagccatga	ccctgcaa	taccaccatg	ggaaaaggagg	ctgccaaaacc	ccccgacagt	13620
cggctgggct	ggcacagact	cgtggtttcc	atcgagggtg	gaggagggtg	gacgtcccg	13680
ccccccccc	atgcccactg	cagagggaag	cggccgtttc	ccctgtgtgg	ttacaaagg	13740
ctcattgttc	ttcctcacag	ggaggaaaact	ggaggaccga	gctcagaacg	catttttagaa	13800
ctggcagaaa	agaacatctg	gggaaggaaa	cacatttcag	aaacaaacat	acctttgtac	13860
cagcttttat	tttctttaag	tgttgaaaaa	ataataataa	taaagacatg	ccaaatttat	13920
catcgctcta	caaaatccct	ttattgagca	aaacgtggca	gctctacttt	caaagtatta	13980
ctgttcctgg	aaaattgcag	caacgtggat	gccaaggccc	gaaggccgcc	atcagcagcc	14040
aaacaaaaga	tgccacctcg	ggctccgcga	cactgtacca	tgccagggaa	ctggacagat	14100
ttggggaaatg	ccacggtttg	cctttaaccc	cttgccctct	ggtctcctga	tgcatctcag	14160
aggctaacat	tctttgagga	actggcattt	cttagttgta	aatatgcatg	tgggtttggg	14220
agctgcctgc	aaagtccagt	gttgacgatc	agctttgatt	tccttggaat	caagtttacg	14280
tgtcgagtct	ggaagttaag	aagaatttg	agaagctgag	cactatggtg	ttgcaggccc	14340
tgggtgaact	cttcaccaa	gcattcattg	tggactgaca	gcgtgcgagg	ggctctgcag	14400
gcaggtgcac	aggacgaaac	acattccgtc	cgggggaaac	ctgcaggaaa	gtccctctt	14460
cttcctaagg	tgccgggcct	agcttcattg	gtccctaccc	tccacgcctg	tcacactttc	14520
tgagtctcat	gtgggagctg	cttctggttc	ctgacttcac	tcagtccctc	taggaggtgg	14580
aactactgtc	accccathtt	acagatgggg	agactgggca	caaggggacc	aagaaaccaa	14640
tgcaaagtca	cacttggtgg	atcagtgaca	ggggagatca	attcccaggt	tctttctgca	14700
agagttaa	tgttttcatg	ctgcctaagg	gggggcaact	gaaagaccac	tgcatatctt	14760
tgccaaaagg	gtcaagcaca	ggagccgcag	ccagtgggtc	agatccgcag	aggcgctggg	14820
gtgaccctcc	ccatacctgg	agggatgctt	gtccctctct	ggccttcaact	gggtccctct	14880
atgaccgtgg	cctcccagga	cctcagcaca	atcccggtec	tgtgctccag	gacaagccct	14940
ccgtcccca	gactgtgagg	aaatggaacg	aagaggggct	cgctgcagcc	cagcaccac	15000
actgcccctt	ctcaggggca	agaaccgtcc	tggaggactt	ggctttggag	ggggagcctg	15060
ggaggccagt	aagtcaacaa	gcctctactg	ctcatgggtg	ggatcccacc	gcaggccccc	15120
acctgctggg	gcgggcaggg	acgggcggca	cagcttggcc	agggcagata	acccccacct	15180
tggccagggc	gaaggcagga	cacgtgggct	ccagcctggc	cccaccatcc	ctgcacaaca	15240
ctgggcaaa	tccacgtttt	cctcaactgg	gtgttgacat	ctgcaggaca	ggggcatgga	15300
ggtacagagc	gctgaagcca	cacagcaacc	taggagcgag	actccatgcc	tccccgggga	15360
cccccccca	ccatgaggac	catgaaggct	tcccatgtgc	cgcaaggact	ctggtgtgga	15420
gacacacgtc	tcctacacag	ccaggccctaa	cgctcttgta	actgggtggt	cccacctggg	15480
ctcacagctg	gagggccagg	agctcaaggc	ttcgcagggt	ctgctctcat	cccagaggcg	15540
atggggagcc	acagcaggct	gcaggagaga	gggtgggccc	cctccacttc	agaggcccca	15600
tctggccccc	agactggaga	gcacatctct	cagcaaccac	ggagcgccaa	ctgcgcacag	15660
ggcctggctg	tcagagcggg	gcaaaggcac	tgaccgtcac	ggccaggggc	agggaagacg	15720
ggtgggcagg	gaccttgggc	agagggggaa	gaacctgggt	cccaggctgg	ccctgccttc	15780
agcagtgaag	ctgagtgggg	aggcgctgat	gcagggggcc	agaaagggt	gctggtcagc	15840
cgggagggagc	ccccacaga	ggaagcagcc	agcccagacg	cagatggcag	ggtccctca	15900
acaatgtcct	ctgaaaagga	gaggcgggga	ctgctctggt	gacacctaca	aatagatagt	15960
cagccctcag	ccccctgcca	tacttctgac	aaagcagagg	cccccagggg	aggcgacccc	16020
gaaggtaacct	gcacctgtcc	cccagactcc	tagagcccac	ctgaccccat	cccaccaggg	16080
ctccagctac	aaaataaatg	ccgaggccag	ctaggcaagg	acgcacactc	ggtaccgact	16140
gaataggctc	cacgttgtca	tgagcgcaac	ccacaggcca	ccaggccaca	ctatgcagag	16200
ctgagatggt	ttcggccaag	cagcctctca	gctgagctga	acaagtccag	agtccccggg	16260
gggtcgtcac	tatggagtaa	caattgcgat	gcgatggtaa	ccctaacagc	taaccgtcac	16320
tgagccaggc	cctgagctag	gtacttttca	acgtgcctc	tctgcagcct	caggacgagc	16380

ctgtgggagc	ataaagatca	tccctatca	cggatgggga	aactgagctc	tgaagcagtt	16440
aacgtgcttg	tcccagaccg	cagagctagg	agcaggacac	aacagcaggt	caggcaggaa	16500
cgggtgaggg	gggcttgc	gggttctct	ggaggtgcg	catacacgca	acccccagga	16560
ccccgacct	gcacctgcag	ctcgctactg	ccccctcagt	gactccagca	aacctcgggg	16620
taggggaagg	aggctgggaa	tacctcgggt	gtccgaaaca	gcagcttctg	cttggaggcc	16680
actgctgcat	aatggttgct	gcccagcaca	ccccaaagcca	cctgtgccac	ctgtggtgac	16740
cttccagcat	gccttggtga	ccaagctggc	cttaggtgct	gtgggcagcc	aagaatagaa	16800
caggggccac	ccctcctctt	cacactaaca	caaagcaaga	ggcggggcact	tcgactgagt	16860
gcatccctct	agctcaaggg	cctcacggat	cacaggggtc	agggcaagat	cccaattctg	16920
cattcccgtc	tgcttttcat	cctgctctgc	caacaacagc	cagttaggct	ggggacatcc	16980
ctgaacctgt	ttctcacctg	aaacacatca	taccattgga	ccccagccct	ccgggagagg	17040
ccctaataccc	tgactgtggt	gagatcagat	cactggttaa	gtaccagaa	gggccttggt	17100
caggggctcc	aggggtgggg	ggtgatgggc	gtggtggtat	cccgtctg	gctatagtcc	17160
acctgatgg	aggaggtctg	tggtcagaac	cgggtgtg	agggcacagg	agcccagagg	17220
gacccccaga	gctcacctgg	tggtctctga	gcagggtcc	ctcaaccctc	agagaaaagc	17280
acagcaagga	ggccgcccag	agcccagcgc	ctagcaccca	gtggcgtgcc	agacctgcct	17340
ggatcctgga	gatctctcat	cacctccaa	gtcagtcag	cccaaccag	ggaccacag	17400
cccacggggc	cgtgaagggtg	tgctgagtc	aagaaggcct	tcgacactgg	gaagccaagt	17460
ggcacctcct	ggtgtggagc	aggcggaatc	ccaccagcct	ctgctctgcc	agtgggcaca	17520
gctggacgat	gagcagaagg	ggctgttgct	taataaacgt	catttcttta	agaggataaa	17580
acctttcaaa	acagatggaa	atTTTTTTTT	aattaaaact	ggtggccaaa	gagatggaaa	17640
gcaccccttg	tgccctccctc	ccatcgtgac	ccatcctctg	cacacctcaa	gctgttcgct	17700
gcccaggtgt	ctcctgaggg	actggggggc	ggtgagaatc	cgtgagccct	cggccagccg	17760
tggtctctctg	gagctctgcc	ccaggccatc	agggcacacg	ccgggcaccc	tggggggccac	17820
acagggcaga	gcccagctgg	gtcagcacac	agggccacac	tgggcacaca	agtctctgag	17880
cctccctgt	ggacgcagct	ctcactatcc	cacccacta	ggtcccgggg	atctgtccca	17940
cagggtgata	tgctgtcaca	gaccactacc	agagccatgg	cctgctgttc	cgcccgcagc	18000
caggtagtca	cttgctccac	agggacaggg	aacgccgcac	ttgggggctg	ctctgcggca	18060
ggactagagc	tccagcagct	cagccctcct	gagaaggaga	actccatgct	ctaagaggca	18120
gacgcagcgg	acggcaccaa	agccaccaca	agcccacggg	gccctgcatg	gcaggtcagg	18180
agtccctgac	cactcgctct	ttgtaaccag	agctgcagtg	gagtctacga	ggcaaggact	18240
gtggggcgga	gtggccacag	caaataaatg	agtgtcccaa	gggagcaggg	ggctgcgggg	18300
aggcacagcc	gggacccagg	agtcctccgg	cactgcagca	aactccctgg	gccccctgag	18360
cagcgaccag	gtggcaagtg	catgaactcc	cgggggcata	acctgggagg	gtgacactct	18420
cttcgtgttc	aaattcttga	gaacgcatta	aaaatatcac	tcagtcacct	actctatagt	18480
tttaactcaa	aagtacaaaa	gtagccaggg	gcgggtggctc	acgcctataa	tcccagtact	18540
ttgggaagct	gaggcaagag	gatcacttaa	gcccaggagt	tccaaatgaa	cctgggcaac	18600
atggagggac	cccatttcta	caaaaaaagt	gttttaaaaa	attacctggg	cctggtggtg	18660
tgtgctgta	gtcccagcta	ctcaggaggg	tgaggcgggga	gaaccacatg	aaccagggg	18720
aggtagaggc	tgcaagtagg	tgtgatggca	ccactgcact	ccagcctggg	taacagagtc	18780
agactctatc	tcaaaataaa	tttaaaaagc	accaagccag	gcttggtggc	tcacacctgt	18840
aatcccagca	ctcaggggagg	ctgaggcaag	tggatcacct	gagtcagaag	ttcgagacca	18900
gcccagccaa	catggtgaaa	ctccatctcc	actaaaaata	caaaaattac	ccaggcgtgg	18960
tggcggggtgc	ctgtaatccc	agctactcag	gaagctgagg	caggagaact	gcttgaaccc	19020
aggaggcaga	ggttgcaagt	agccaagact	gtgctactgc	actcaagcct	gggagacaga	19080
acgagactcc	atctcaaaaa	ataaataaat	caatcaaaac	caccaagact	ttttaatata	19140
aacattttatt	attccataat	tccttttttg	catgattaaa	aatgtttata	taaagtttcc	19200
tgaataatggt	agaatgccca	agtgaaggct	gcaaatgccc	aagccccccac	cgtggcatct	19260
cacggagtct	gggccttagg	aggctggtgg	gtaccacgtg	gacccgagac	ttcacagtca	19320
agtccctttg	gggtacactg	ggtttccccc	accccagaaa	tatgggctct	tactgcagga	19380
ccatgggggt	cctcacactt	ggcccagaag	ctgtcacata	gccagacagg	tgttctacaa	19440

cctaggctag	agggagctca	tgctccagca	gaattcgagc	cagaggaggt	aaaagatggg	19500
taagatctgc	tccctggaca	gatgaggcct	tggcctcaga	acagttactg	atcatctacc	19560
agacatcaca	ctagaggcag	aggggcgag	acgaagacag	cccctgtcct	caaggccctc	19620
ccaggttggg	tggaccatgg	aaggttccag	acagatctgg	caagagaagt	gccccacacca	19680
ggggcagaag	atgggcaggt	ctgctcaggg	cggcacggcc	tgccaggcca	aaaagttcca	19740
acttcagatg	ctggagaatg	ggcacgactg	tctgagaaaag	ggaaggatgt	gatgaaaact	19800
acttgagaa	aaattaatct	ggccagagca	taagataaat	gggcaaaggg	gaggttccag	19860
aaagcaagga	gaccaagtaa	aagctgatgt	cattggctct	gaatctaggc	tttactgaa	19920
tatgcaccgc	agggcctgta	ggtaaacct	cagagcccag	ggagtctgag	tggaggagag	19980
ggcaggggac	agagctgggg	cctgtgtcta	cagtgtctag	gaggaatagg	catggacgtc	20040
agctcggagg	ctccagctga	agtgaggagg	cggccagggc	agcacggcca	cgcccggatc	20100
cagactcctt	ttgggaagca	agttcgctct	gggggaaagt	ttggagaaat	ggcctttacc	20160
cgcagaagca	agccccagaa	catatcttgc	tccaaaacta	tctcgtacag	tgaggacgtt	20220
aagcttcagg	tcccctagag	gagacagtct	gctccttct	ggggcagaac	ccaaggtggc	20280
cagagcctgg	aaggcaccca	gcaccaggc	tggtgtgttc	cagcccaggc	cacacgtca	20340
gatagctatt	aatgccccgt	tgagcaatct	cctgagagct	ttgccaggca	ggtaccgcct	20400
ccccatctga	actaatacag	gggtacatcc	caaggaagaa	atgaaagggtg	cccacatttt	20460
gctctgggat	taactagggg	ggggagtgat	aattaactca	gtaattatat	ttgccatcgg	20520
gctaattgcta	aaattagtgt	gcattagaat	ttctttcctg	agcagacacc	ggagtgaagt	20580
gggcagcagg	agtggctcgg	gcaagtcggc	acaaagggca	cctccagagc	cttccacaaa	20640
tgtcagcaaa	accacaaat	gtcaaggccg	gctccactgc	accacgcaga	tgaattcact	20700
tccacagcct	gagaccgcca	gctcatcgga	ggccatttaa	aatccagccc	tctgacacct	20760
gctggatatc	accattttacc	gtccccagat	caagagatca	aaggggtgga	cctgatagga	20820
cggctctgaa	gttcaccaca	aaagcataaa	cgtgcaagca	gagccaatac	gtcttttgaa	20880
aaggacaatg	aggtgggaat	ttacataact	gatcttaaaa	tatgtttctga	tgcttcagag	20940
atggagacag	cagcattccg	gtacacaaaag	acactcacag	gcagtggagc	acagtgaagg	21000
gtctggaatc	aggacccagg	tgtctgtgga	cactacacat	aaaagagcag	catttacaat	21060
gaatggatag	gatggaccat	cccaccaagg	tggttgacaa	ctccctattc	actggccaga	21120
cccctacctc	ataccatata	caaaaaaaaa	aaaaaaaaaa	aaaccagac	agaataatgt	21180
ctgaatgtaa	aacataaaac	agtaacagtc	ctggaagaaa	ataatggagg	atatatttat	21240
aatctggaga	tggagtaaca	agggatagga	aaaaagccat	agggaaaaag	tagagttatg	21300
attatatgaa	gcttcttaat	atcttttatga	taatgtacca	ccagaaacaa	ggatgaagga	21360
ctagctacag	accagcagtg	aaacctgaaa	caaacagaa	aaagaattaa	agtcataacc	21420
aaataaagac	ctcccacaaa	tctataagaa	aaagataaac	aggctggcac	cgtggccttat	21480
gtctgtaatc	ccagcacttt	gggaggcgga	gatgggtagg	tcacttgagg	tcaggagttc	21540
gagaccagcc	tggccaacat	ggtgaaaccc	tgtctctacc	aaaaatacaa	aaattagcca	21600
ggcgtgggtg	cgcattgcctg	tagtcccagc	tacttgggag	gctgagccag	gagaacagct	21660
ggaacccggg	aggcagaggt	tgcatgaaac	caagatggca	atcgcgccac	tgactccag	21720
cctggaggag	acagcgagac	tctgtctcaa	aaaaaaaaaa	aaaagaagaa	gaagaaaaaa	21780
gaaaagaaaa	agacaacaga	aaaatggggc	aaggataagt	gtaggcaatt	tcagaaaaag	21840
taaataccaa	taaaccagaa	atgagggttg	tgcaaatcaa	aaggtgttat	aatttttaac	21900
caaactggac	caaagaaaac	acaaaaaac	aaaatcttgt	aattgccagc	atcagagagg	21960
atataggaaa	gtgtgtgttc	tctgtatgac	ttgcaggat	gaactgctac	agccttttag	22020
gagttatgta	tgtatgtatg	cttgtatgta	tgtatttgag	acagggtctc	gctctgttgc	22080
ccaggctaga	tctgttgcag	tgctgtgatc	atggcttact	gcagccttga	cctcctgagc	22140
tcaatagatt	ttcccacctc	agcctttcaa	gtagctgaga	ctacaggagt	gtgcaatcat	22200
actcagctaa	tttttttaaat	tttttgtaga	catggggggg	ctcccaattt	tgcccaggct	22260
ggtctogaac	tcttggaactc	aagtgatcct	cctgcctcaa	cctcccaaag	tgctgggatt	22320
acctggatga	gccactgtgc	cgggcctcaa	tatcttttaa	aacagaaatg	gacacactct	22380
ttgactagga	atgtatccta	taaaaacact	tatacacatg	cagagacaca	cgagcaagca	22440
tgctttgtaa	tagcaatgaa	ggctggaaaa	actcctcaat	caggtaaatg	ctgtcaagtg	22500

cacctgtgta	ctatgaaatg	gcacttggct	tttaacaaga	gcaaagacag	aaaagcaaaa	22560
gtacaaagta	gggtgtgatg	gcacatgcct	gcagtcccag	ctactcagga	ggctgaggca	22620
ggaagatcct	ttgagcccag	gagttggagg	ccaggagctg	ggcaatagtg	agaaaaaata	22680
aaattaaata	ataataataa	taaaataggg	tgggcacagc	ggctcatgcc	tgtaatccca	22740
acactttggg	aggctgaggt	gggaggatcg	cttgatccca	ggagttcaag	gccagcctgg	22800
gcagcaaagc	aagacaccca	tctcaacgac	aaattttaaa	aaatcagcca	ggcaggctgg	22860
gcatggtggc	tcaagcctgt	aatcccagca	ctttgggagg	ccgaggcagg	cagatcactt	22920
gaggtcagga	gttcgagacc	agcctggcca	acgtggcaaa	accctgtctc	tactaaaaat	22980
acaaaaatta	gctgggcatg	gtggcagatg	cctgtagtcc	cagctactga	ggcacaagaa	23040
tcgcttgaac	caggggtggca	gaagttacag	tgagccgaga	tcgtgccacc	gcactccatc	23100
ctgggctgta	gtgagactcc	tgtctcaaaa	aaaaaaaaaa	aaaaaaaaaca	aggagccagg	23160
cacggtgggg	tgaggggagg	cacagaagca	gcgcctcttc	tgggggcacc	cccaatctct	23220
agcgatccag	aggcctcagg	atcctgaagg	gagaaaaaac	gtgaagctcc	gtgctagaag	23280
agaccataga	gattggaatc	agctggttct	attttacaaa	aaaaggaaac	tgaggccctc	23340
agaaggtgag	tgccctctca	tgccccacag	ggaggcaggg	agagggtctc	gagccctgca	23400
gggcccctgga	ttcttgcaat	ggggtggagt	ggagcctgtg	ccgcccccac	caggcacctt	23460
ctcaggagag	gagccgttgt	catatccttg	aagggtcctc	tgagcccctc	aaaaggctaa	23520
aaaccacttt	cctccttgag	tgaaccttca	cctcagttta	accacaagaa	aaactacatt	23580
aaggcccagc	gcagtggctc	atgtctgtaa	tcccagcact	ttgggaggct	gagggtgggtg	23640
gacgcttga	gcccaggagt	tcaagaccag	cctgggcaac	atagtgaaac	cctgtctcta	23700
caaaaaacaa	caaaatcagc	tgggcgtggg	ggtgcacacc	tgaggtecca	actacttgcg	23760
ggctgaggtg	agaggattgc	ttcagcccag	gaggtagagg	ctgcagtaag	cggtgactga	23820
atcactgcac	tccagcctca	gcaacagagc	aagactcaaa	aaaaaaaaaa	aaagcaggcc	23880
gggtgtggtg	gctcacgcct	gtaatcccag	caccttggga	ggccgagcgg	gaggatcagg	23940
agatggagac	catcctggct	aacacggtga	aaccccgctc	ctactaaaaa	tgcaaaaaat	24000
tagccgggcg	tggtggcggg	tgccctgtagt	tccagctact	caggaggctg	aggcaggaga	24060
aaggcgtgac	cctgggagggt	ggagcttgca	gtgagctgag	atcacaccgc	tgactccag	24120
cctgggcgac	agagcaagac	tccatctcaa	aaaaaaaaaa	attaaatctc	aaaaaaaatt	24180
acattaaggc	aaactaaaag	atgttttaaaa	tatatatatt	aaattaaata	cactccaata	24240
gagcaaatac	gaaaataccc	agaaaacaca	atccccgcac	ccccaggaca	acctcccagg	24300
gggtccacag	caagagaccc	caagcacgag	agacagagaa	cagtgtccct	gtggcggaac	24360
ctctggccca	tcaggctcta	ttagaaaata	aggctcttgc	cactgagaga	aagaggcaca	24420
gtcgcaccag	agccacgggc	tctggcacac	cacgagtcag	gccagcaaaag	tgtcaactgc	24480
cccctacaag	gtgacaaact	aggacaaact	ggaaaccaga	ggctggacct	ggagcacagg	24540
gaccaccaca	tggggctggg	gaatgggcag	ggacctcaga	gcgccacca	catgcctaag	24600
agcagcgcgt	atgcgcatgc	ctctgcatgg	cttagggaca	caggagctc	ccccacccc	24660
caaccagga	aggcagcccc	cactaccag	gtaggaacg	gataggacca	gcaccccggt	24720
ctgctcgtaa	ctcagggtctc	caggccccct	cgggggcaac	cagcacagag	ctcagacccc	24780
aaatatcttc	accacacctc	tggtcccat	ctggacaagg	gtgctgggga	ctggctctca	24840
gtcacaccct	cggggtaactc	ttcaaaggac	agctggatgc	cccagggcag	gagcttttgg	24900
ccccagctc	cctcacccca	gacaccagct	cttgggaccc	caccagcatg	ggcaagggtg	24960
acaccatcgt	cccgattttg	cagatgagga	aactgaggct	gagggctggc	acacggctct	25020
ccagagctga	agagaatgca	gagagcagcc	ggagccagcc	ggtgggtccc	tgaggccggc	25080
tcgtagcaag	ccacagctgc	ctccgcccac	cacacttggg	cctcactggc	cccaggacag	25140
ccctccaggg	cggcctggca	cagagcccac	accctgctgc	ttcctgaaca	aataagtga	25200
caaggccacc	aagccgagga	cctggatgta	gccccggctc	ccgccagggc	ctccccaaca	25260
gactccccat	ttggagagcg	cattaagtgt	ttccaaagcc	tcacaaacca	cagatgtccg	25320
gctgtctcac	ggcttctgta	acctgaactt	ggccctcact	ctgccctccc	agcactcctc	25380
tcagggccca	ggccctcctc	ctgagatgcc	agcactgact	ccccaaactg	tccccatcac	25440
ctggctcggt	cctgaacctc	ggcaggagag	tctcaggcca	gacccctcca	ccagccacct	25500
ccaccaggat	gcaggaggca	tgagacctgc	tcgtgccggc	tgggagatgc	aaccaaccaa	25560

gatcaatcca	atcagcggat	gaactgacaa	atataatgtg	gtccctccac	acaatggaat	25620
attattcagc	cacaaaaagg	gctgaaatag	gccgggcgtg	atggctcaca	cctgtaatcc	25680
cagcactttg	ggaggccgag	gccggcagct	cacttgaggt	caggagttca	agaccagcct	25740
ggccaacatg	gtgaaatccc	gtctctacta	aaaatacaaa	aattagctgg	gcgtgggtggc	25800
gggcacctgt	aatgcaagct	acttgggagc	ctgaggcagg	agaatcactt	aaacccagga	25860
ggcagaagtt	gcagtgcgac	aagatcgcac	caccgcactc	caacctgggc	aacagagcaa	25920
gactccatth	caaaaaaaaa	ataaaaggct	gaaacaccca	tacgtggtac	tacttggtatg	25980
actcctgaaa	acgttacagt	aaccaaggaa	gtcagccacg	aagacgcatt	gtaagattcc	26040
cttcattgcaa	aatgcccaga	acaggcagaa	ccacagaggc	agaaagtoga	ctggtgttca	26100
ccaggggatc	cgggggagagg	gaacgggaag	tcaccgtgta	atgggtatgg	gttttatttt	26160
gggggtgatgg	aaatctctta	taacttgata	gaagagaggg	ttgtaaacac	tgtgaatgta	26220
ccaaatgcct	gccttctata	ctttaatatt	ttatattata	taagtttcac	ctcaatttaa	26280
aaaaaaaaaca	actcgacacc	tttcacctag	gaaagatctg	gcttttagctt	gcatttctctg	26340
taactcctgc	ctaaagcctt	ccagaagctt	ccgctgcctt	gtggatcaca	accagactcc	26400
acaccatgat	ctggcctcta	agggcctctc	gcaggacacc	ccgaggggtga	aggagcacc	26460
gtgggcccac	ctctgcatag	ctgcaaagct	tctttccctg	tctccctc	tacatgggaa	26520
gctctgcccg	caggggaggg	gccttatctg	ccattctatc	gcactcaacc	ctagcacttc	26580
actcggtagc	agacacccaa	gcaaacacgc	aacagcatta	taccgggcca	ggtgcacggt	26640
aactcactga	attcatggta	ggaaggattc	tattcccatt	ttacaggtga	gaaaactgag	26700
gcacacaaaag	gtagcatcag	cttcctaagc	ctcccagcac	aggaagcggc	caggctggaa	26760
tcagaccctg	ggcgagggg	ctctgtccac	agtgttaact	aactactcct	gcccccgagg	26820
gctgcagcgg	tgagtgcagt	agtttgtcag	tggactggat	gtccaagggtc	atacaggaaa	26880
aatccagact	attgtaataa	cagcctctag	accggctggg	gccagaaaga	tcgaggacgc	26940
tgacacacaa	ctgcgctcac	tgcagctctg	ccagggatgg	ggctaaaggt	ctcacacagg	27000
gcagttaggg	ctccccatag	cctgggagag	gaacgggggtg	agataacaga	aactaggtat	27060
ggtgcccga	gtcaaacagc	cactgagcat	gtaaaccag	gtgggtctga	ccccaaacc	27120
ctccaccccc	atcagccctg	caaccgctcg	ctgcaaggga	gaaagcaact	cagaggcctc	27180
acctgcctac	atccccccac	cgtgtgtgtg	agttctacta	aatgcctgag	cagtgcacaca	27240
gcacggctga	aattaaacgg	gttccaaaaa	cgacaggaag	cacgaagtga	atctccccag	27300
gaaagtgtctg	aacaaatgct	ggatcggggt	caccggcgaa	tttcttgga	ctgaagaggg	27360
gagctaaaca	cacggggccc	tgccttgagg	gggactctct	caggggtgctc	cacacagcac	27420
ttgggttaacc	ccactcagcc	cttctgggct	ctcccagagg	gcccggcctt	ggccttgggc	27480
atctacagga	ggaacctcca	gggggagagg	gggtgcctgg	acaggccggc	cctggaacaa	27540
gcacttgggc	cccaggagga	gaggactagg	gcttgggagc	tggggaagtt	ctcagcactg	27600
ggaccactag	aacaaagcca	tttcggtgcg	ttcacagctt	ccaattgcaa	caggaagcaa	27660
tcaggaaaaa	taattagcgg	cccacttaact	ggcttcgctg	aggctccagg	catgtatttc	27720
acacagtaaa	accagggata	taacatcaaa	accgttctgc	agaaagattc	ctccctttcc	27780
ttccattttta	ggcctggatc	accacattca	ctggggctcc	caggccttgc	tgcctaattgt	27840
taaaataatc	aactctatth	ttgcctcaca	cacaactgaa	ctctacagct	ataattctth	27900
ctcctcaggg	gctcgaacca	catggacgac	aggcatttga	ctccagcaac	atcccccaa	27960
aacgtgcaca	aaacccaaaa	ctgcaatgag	gtgaaaggca	acgcggctcg	cctagaaacc	28020
ccccctttta	aacaaacagt	ttccccaaaa	ccccctttgc	ctccttgacc	caggcatttc	28080
cggaaaaagg	agcggcgctg	gcctgtactc	cccagatact	gtcgctgttt	tgtcttcacc	28140
ttgttttgct	agctccagac	aaggccccac	aatgtaaaca	cgctcctgaa	agaggcagat	28200
ttgggggtgaa	actgtccata	gaatctctag	gcttgggtca	gaggcaggag	gacgtgaaac	28260
aaactccaag	ctcctcctgt	tccccgctgt	ccccacacc	tccaagcaga	ggctgcagcc	28320
tgggggatct	gactacaggg	ccaccccgct	gcaccattca	cactggaaat	attcagggag	28380
acagctgttt	gccttaagga	ggcccagaca	aaggggcccg	aggctcctcc	cgctaaactg	28440
ccacaaacag	aacaggagcc	gcggcggtga	caggcacttg	cggccgtgcc	acttggccag	28500
ccatactcca	gaaaaacaaa	acacgcacat	ccgaagagaa	tgatttaggt	agcaagaggc	28560
ttgcttgaaa	aaccacatgg	caatctccaa	attaaaagaa	catgtgtagc	gtttcacgac	28620

tgcttaagtt	tctgagtc	tctgacctc	aactccaccc	cctgggaaac	acaaaaagtt	28680
ggatgagaaa	gttccccgc	cctacctctc	cccacgggag	tgtacaactg	aggcacaagc	28740
ctgcctcccc	cactgccccg	cgatctggga	ccacgtctcc	tccgcgtagc	cgacccgggg	28800
atggacacta	tctggggacc	cggcggccac	acggggcatt	cggtcgcccc	gggcacctgg	28860
caggtgtcag	tccgcttgga	aaccacacagc	cacgcggctc	acaggagcag	cgccaccggc	28920
taggccgccc	cgcgcccggg	ctcagaactt	tctcgctgcc	acttcagccc	gtcctcggag	28980
cacgcggggc	ggccgcgcgg	ccgctggaaa	caggcttgcg	aaccggctcc	ccgggccagg	29040
cccgcctccg	cgccccaaag	ccccgctcgg	tgcccgggcc	gggccacacg	ggcccagcgc	29100
gggctcggct	cggctcccgg	cttcccgcgg	gctcgggcag	gtgaggaccc	gcccgcgcgc	29160
cacctggcgg	agcgggcgc	ctcctcgcca	gcccgggacg	cagcgtcccc	ggggagggcc	29220
cgggtgggga	gacaaagggc	ccgcgcgtgg	cggggacgcc	ggggacggca	gggggatccc	29280
gggcgcgcgc	cccaactcgc	tcccaactcg	ccaagtgcgt	tccgagacgg	cggcggcgcc	29340
cgcgcacttg	gcgcgggggc	cgcccgggcc	attgtccgag	caaccgcggg	cccgctcttac	29400
acgcggggcg	cgggaaggta	tcgaatcagg				29430

<210> 8

<211> 33769

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (33739), (33749), (33758)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 8

cttccccctta	cactggctcct	tgcacccgcc	tccgatgaaa	actgaatggg	tttagcctta	60
gaggctctcgc	gtctctaagg	gaggtgggtc	aggatgccgg	ggacaggggc	ctcttctctgg	120
ggcaacgtgg	gggaacgagc	cacctacccc	tccactgaat	tgccctgggg	tgtgggtacc	180
gacggctcat	tccgtgtcca	gggtctgaga	tgtgttgaca	ggaagaatga	aaggggatgg	240
gagggatggg	gcgaaagaag	ccacctgcag	ccccaggaac	tatctggcca	gcacaccgtc	300
accagcgggc	ctgagccacc	cctgccagag	ccaggaggag	accctgccaa	tgggtcacca	360
gtgtgcagga	actcagaagg	tcatcacagt	taataccctc	catgccccaa	tgtgggaaaa	420
caggtttttt	cacaacaaac	aagataattt	ttgttatatt	ggcaaaagga	ggcagggcag	480
ccccggacac	ctccatccca	cctcatcacc	cagccgcagg	gccccggcca	tccttcgaga	540
cagagtggat	gtcacaacct	ccctgcaccg	aaccaagtgc	agctcccagg	ccacaggcca	600
cccaggaaaag	gtccagtggc	ccccggaggc	ttccaccgca	ggcctcccac	cacagccggc	660
accaacccag	gatagctgtg	ttctcctggc	ttcttttcac	acgggtagca	gaaagctgag	720
atccggggaa	agctgagatc	cagggaaagc	tgagaatcgg	cctctgctgc	ccggacgccc	780
acccccagct	ctgctcccag	ctccagggcc	tccttctcag	gtgcccttac	aggaggcaga	840
gggcttgagc	cacctcctgg	gcctggggca	cgcaggatga	acggggtcac	ggtgcaggcc	900
actgtccact	gcgcagatcc	caaggccata	aacagcctgg	ccacagtggc	ttcccagctg	960
gcaggcggcc	agattatttt	tgttgtttag	caattgatta	agtttctccg	ctgccccag	1020
gggtaagtgg	tggggcaaat	gccgcaaccg	cagcatttga	cccgggatcc	tgtgccaagt	1080
gaccataggg	tcacaaagca	caagggaagt	ggctggggcc	gatgctggct	ctgctggaac	1140
ctgaggccgg	ccactgtcac	ctgcacggtg	cctgggacct	tccagcaagc	acagagaagc	1200
tatggccctc	caggagcagc	tggcaggcac	cttggccctgc	agtcaggggc	tctgtctgct	1260
cagctctaaa	acaggaaaag	cgctgctctg	cctgggggtca	gggcagccag	agagtgacca	1320
agtcagtgcc	ggcctcagga	agggacctgc	aggcgggtcc	cttctctctc	catccctcgg	1380
tgccagccag	ccctcctctg	ggccccccac	tgcctgcctc	tgcccccatg	ccccaccaca	1440
acctcaggcc	catggctgca	tggccactcc	ccaggcaggc	agtgggggatg	ggatttcacc	1500

atgttggcca	ggctggtctc	gaactcctga	cctcaggtga	ggagttocta	aagtgtctggg	1560
attacaggcg	tgagccaccg	cgccagccct	cctgttggtg	ctaaacactc	acaccccctt	1620
gctggggacc	ctggtgaggg	aacacagcct	cacaagtga	gtgtggtttt	gttgagcaaa	1680
tgacgcctgg	gcagccctct	catctttgcc	taaaactgaa	gaatttaggg	gcgtggatgt	1740
ataaaacagt	tggtgactta	aatgaaaaag	aaggccacac	tccccctttt	aggcaggcgg	1800
cctaattctt	taaaagccag	cacagggtgc	ctttctgaac	ccaggcacac	agtaggtgtt	1860
caatggacag	cagcggttac	ttgtactgct	catgacaccc	tgtctgtggc	ctctgcagct	1920
ggctccagcc	tgacgcatgg	ctgcgcccc	ccgcaaggcc	accccggtat	acatggaaac	1980
tctgtggaga	aggccttggg	ggccggccag	gacgccaggc	ccagatccca	tctgcgccct	2040
tcctccatag	acctcagcga	gctctcgga	ccatgtgcct	caggccatt	taagaagtag	2100
ggccggccag	gcatggtggc	tcatgcctgt	aatcccagca	ctttgggagg	cccaaggtgg	2160
gtggatcacg	agatggtcag	gagatcgaga	ccatcctggc	taacacggtg	aaaccccctc	2220
tctactaaaa	atacaaaaaa	taagccgagt	gtggtggcgg	gtgcctatag	tccaagctac	2280
tcgggaggct	gaggcaggat	aatcgcttga	gctcagcagg	cagaggttgc	agttagcggg	2340
gatcgcgcca	ttgcaactca	gcctaggtga	cagagagaga	ctctgtctca	attaaaaaaa	2400
aaaaaaataa	aaaaaagaag	cagggccagc	cacggacgac	ccctcacaca	gctcccagga	2460
cgcgtgcctg	ggtatagggc	tcaggaccat	gaccgctgca	gtggccccc	agaaacgtta	2520
cttttgtcac	ccaccccgcc	tcagtggcag	tagccaaaat	aacggattag	aatggaacca	2580
tgtgacaatg	ccactgcccc	aactgacaga	agatggctat	cagcagttca	cgcgccccc	2640
cctatcacaa	gtgcagggca	ctctacaact	tatgcactct	tcccagaca	ccgtcctttc	2700
gaccctccca	ggtcagcaag	gcacacaggg	cctacatttc	acagccacac	agcagagggc	2760
tgaggctgga	actcggatgc	tctgatttcc	gttcaatcac	atcccagag	gtggcacaga	2820
gacggggggc	ttctcttgac	aaagtcaaga	aagtcaactgc	cagctccact	gaagacccaa	2880
gaacctcagc	tctcaaaccc	tcttgaaggt	gttaccgaac	tctcccagcc	tgtttcctgg	2940
gtcccgatgt	tggtcccgtg	ggacacagga	agaggaagaa	gctccctaga	gcagagcctg	3000
gtgcacctgc	cacactctca	gagggctgcg	cacgggcgga	ggagccgtgt	gcaggagtgg	3060
ggtctggatg	gaggggcgct	gtggccgggg	gcagggggca	ggggaagggt	gctccaggtg	3120
gtgggcacag	cacgagcagg	ggcagggagg	tccacactca	gatgtgcaca	gggagaaaca	3180
aatcgtgcat	ttccattgga	ataggcggta	aaaggtagaa	aaacagagtg	ggggccagga	3240
agggagtcgg	agccttctag	tgtctctctg	caggtgagcg	gcagcccgag	gtgtcagctc	3300
agcagacttg	gggtccaggg	gccgtgtctt	ctatcactga	ccccagggca	cacggaactg	3360
gggagggaga	gcagagggc	agggcacggg	cagtgaacg	aaacaaggag	tcatcaccaa	3420
atgcggaaa	ggcaaggagt	gcccgcagcc	gcacaaggg	tctgtctggg	caacgtgggc	3480
gtcccaccag	gccccgcacc	ctgcaagcgc	aaagctcgcc	actgaagata	aagggaagct	3540
gttggagctg	cggagctggt	ctggggtccg	catggagctg	ggcttatgct	gcagtcacaa	3600
gggggacatg	gaagaggctg	caggggacaa	aaccagtgac	cacagtctaa	ctctgagcct	3660
gtggaaaggc	gcccacagca	ttcacccatc	ccagagatgc	cattccccct	gtgccccgc	3720
tccacggtga	cagcgtttct	caggaatatg	atgcgcccc	ctcctcttgc	atcagccctg	3780
acagtgagta	ttcaggccaa	aaagcagaag	agcacagctg	cgtggttcca	tttccatgta	3840
gttctggaac	aggcaacgct	aatccaaggt	gatagaagtc	aggagagtgg	tggagggggc	3900
gggggttgag	gatggcaaa	gggcaccggg	aactttccca	gtggtagaaa	tgttctctgt	3960
ctggaccgtg	tggtagtatt	gcagacatat	gcagctgtca	aagttaatcc	aaatgtacac	4020
gttaaaatgt	gtgcgtttta	ttgcctgcaa	gttatacctc	aattaaaaaa	ataaagttag	4080
cactcaggct	tcttccacaa	cttcctgaac	cgtgtgagct	gattttcttg	ctattaaaaa	4140
ttcacggctc	atggctgaga	acagcagctg	ccttctgttt	gcaaagtcaa	cgccaatcac	4200
tgcccggccg	cggcagactc	ggccccacag	gacctccttt	cttttttccc	tttgacctac	4260
ttccctgata	agtgacaaga	cagccagact	ctgggaacaa	acgcccgtta	ttcgcccccg	4320
agctgagcgg	gccctgcttc	ctgagctaat	ccgcccggac	agacggaggg	acgtgagggg	4380
ctttgcccgc	ggctccagct	gtcagctctg	ccgtcagact	cgacagtggc	ccccctctgt	4440
cctcccgcgtg	ccccactcc	atccccgact	tctttttgtt	tcctgtccct	gacagacgaa	4500
catctgttaa	aactctgtct	gggtgagctg	tggccagcgg	cccacaaatc	cccaagccgc	4560

acccagcct	catctgggcg	ctgccgggag	cactgcctgg	ccaccctctg	gacatagctc	4620
tgagagccac	cggccagggc	acgtgtggcc	cgagtggcat	ggtgcacgcc	gctaagccca	4680
ctgccccaaag	gcccccaagc	aggagggatg	tgcaggagac	aaaagtcaaa	agaacagggg	4740
cacgttccac	agaggatggg	gctggagggg	tggcagttag	gaacagcagc	ttccgaggat	4800
ggcgggtggca	actcccaaat	aaggcctcac	tcctgctgtt	tttagctcat	tccacataat	4860
tggaaaaaca	tggcagaaac	cgaagccagc	tgctgccttg	gtcctggggc	tgtgtggagg	4920
gggtggggag	gccggaggcc	caggctctgc	actcgactgc	tggggatgag	agtgactctg	4980
agctgcagag	agcagcatcg	cagccgccat	ggtccattg	agccccggcc	acgctgggcg	5040
gcagaggctc	gtgggatata	cctgcctgt	ctcatggggg	tcacttcagg	aggggcgggg	5100
gagccaggac	acagcccagg	gctagcggtc	accctgcagc	tcaggggcca	cgtaaatagt	5160
gccaccttga	aggcacacag	cagtgcgggg	cccccccgc	caccaacgca	tccctacctc	5220
taggaggccg	cctgtgtgcc	cctgggaacg	ctgctccctg	tccttggggg	tcctggtgtg	5280
accacctct	cagccccctt	cttgggggaag	gcacctgact	ccctacaccc	agctggcttt	5340
catttgetca	aaatcaggaa	aaagcagaat	tcaagacatc	acagaaatgt	cttcgcctgt	5400
aactccatga	aagataaacg	gtcagacacc	caggagggag	tcccagggac	ccttgagtct	5460
cacctgaggc	tctggcttca	aacctcgaga	tgtttccagc	catgctagcg	cgcccccca	5520
caacctgccc	cacacagtcc	tccttggga	actcacagat	ttggccccca	cctgccccgt	5580
ttcttctggg	ggagtgggtg	cgttgggttg	gggtggggct	ggggactctg	gatgtgtctt	5640
aagagtctga	gtgattctga	cacagccagg	ccctgcccc	ctcctgacct	tcgccccaca	5700
ggaaagggag	ccacacgcct	gaagcgccca	gcacaccccc	ctcgtcctc	cccaggtcac	5760
ccgctggccg	tgtgagccgt	gctccccact	gccccctcac	ccaccccagc	tcctcctggc	5820
agcaccagc	cttggaagct	acttctgatt	acaaccgccg	aaggaagact	cgctccctcg	5880
gcactgaccc	agacagcctg	caccatcacg	ctgctcagca	caaccacac	agccttctc	5940
caaaccccat	ggagcgggga	gtataatcac	cccctttcta	ccaacggaca	aactgaagca	6000
cagagagggt	aagtcacttt	cctaagctcc	caacacgatg	acaaaaata	gaaggtcagc	6060
ccgcaagtgg	aactaggtgc	tccaagtcct	cgggtctgcct	gacactgcac	ctcctcgccg	6120
ccacggtccc	gggtccgcct	gacactgcac	ctcctcgccg	ccacggtccc	gggtccgcct	6180
gacactgcac	ctcctcgccg	ccacggtccc	gggtccgcct	gacactgcac	ctcctcgccg	6240
ccacggtccc	gggtccgcct	gacactgcac	ctcctcgccg	ccacggtccc	gggtccgcct	6300
gacactgcac	ctcctcgccg	ccacggtccc	gggtccgcct	gacactgcac	ctcctcgccg	6360
ccacggtccc	gggtctgcct	gacactgcac	ctcctcaaca	ccaccacggt	cccgggtctg	6420
cctgacactg	cacctctca	ccaccaccac	agtcgccggg	ctgcctgaca	ctgcatttcc	6480
tcataccac	agtcgccggg	ctgcctgaca	ctgcatttcc	tcataccac	ggtcccggtg	6540
ctgcctgaca	ctgcacctcc	tcaccgccac	ggtcccggtg	ctgcctgaca	ctgcatttcc	6600
tcaacaccac	tccttggccg	gctcccaact	acaaaccaag	ccatgtcttc	catcctgaat	6660
cctcttggcc	taaacatcac	tcacaatgcc	tccttcggga	acaggcacaa	gtcccaccag	6720
cacagcctcc	ttcggtacct	gcgtttccgc	tagccagggg	ccagctccag	agccctcacc	6780
acagagcctc	tatccttcac	ccccggacac	tggacctcac	caacccatag	cctggaggag	6840
atccctgtgt	gaccccaggg	cctcctctgc	cgcactctga	atttactgc	ccaacgtgac	6900
acctcggaag	gctctctggg	cactggcagc	cctccatggg	caccgctcct	tctggccagc	6960
tctgacatcc	cggctggtga	ggtgccctgc	acgaggcctc	tgccactggg	gacctcacag	7020
ccgtgctgtc	agctgcaaca	agcgacagaa	tttcaagttt	tcttcacgtt	gccccgggtg	7080
gagcagctcc	aggtagtttt	cagtcgaggc	gaggcgtccc	gtcagcagcc	aggcggcaca	7140
gctaattcat	gcccgcgggg	cgcacggccg	caataccaat	gggcacctgc	agcctggaaa	7200
gccacagagg	aaccgagaac	agcgactgtg	ctcagggtgac	aggactgtgg	tcttttaaca	7260
aaacattttc	ctttaacgtg	atattttacg	gcaaggaatg	aaacctggag	ggcaggacat	7320
ttggatacta	aagccccagg	ctgccgcgtg	gtctgctttg	tgaagtctga	agcccgcgcc	7380
ccattctggc	cccgtctaca	ggtccggctc	tgactcacca	gcttcaatgc	taggccgtgc	7440
ctgtcctcca	accagaacat	gacttcctta	aggacaaagc	cgtttctcgc	ccatccccat	7500
ctccctctgg	attaagaaat	atgggaagat	cttctagaac	cacctcaaat	ttgcagagag	7560
ccatcctggg	gacaaaccct	tgaaatgctt	ctaagaagag	tttaggtttc	ttctcaactc	7620

taaaaacctct	agaaaaactct	atttccacac	cagctgcccc	tggaacactt	cagcttcaaa	7680
agggcccagg	gcagggagac	ggaggagcca	gcattccacac	cgagcaccag	cctgttaatt	7740
aacgggaagc	gggtggggcc	catctccagg	cagctctgag	gtcagactgg	ggaaccatgc	7800
ttacaaaaaa	aagtgaactg	aaacgctcac	gtcctcatgc	aaaaccagac	tcccagttgc	7860
atctttctgt	ctcattgagg	agctttttcc	tccctttgac	agaacaccct	acacacggca	7920
tctggaacca	aagcagaaag	attcaggctc	agagtaaaac	agtccccaca	ctggctgcat	7980
gtggacgttc	ccggcccaga	gtctcgccca	agcagggcct	ataaatgaca	caaaatgttt	8040
ttctcctgcg	tgccagtcac	gctccaactg	agttatgtgt	aaaagtgcct	ctcacggctg	8100
agggcaaaaa	cagttcccac	aagactagag	aaaggtgacc	cctgacggct	gagtctctag	8160
ggagcgtgga	gctgctgtct	cagccctgcg	gccctgacgg	ctctggaatg	gaaaagctat	8220
ccaactggaa	gggcagggct	cgctgctagt	ccagcggctc	aacccccacag	gtgtctgtgg	8280
tgtagctccc	atgccacaga	gcccagggct	ggggccagag	ccaccaggcc	ccctgccagc	8340
ctgcaggggc	ctcctcctct	gggtagccta	accacccctt	gtgagcgcag	gcagcctcct	8400
ctaataccca	cagggcctgt	ccccccctct	ccccgccttg	caggaaaatg	agccctgagg	8460
actccccagg	gctgctctgg	gcctggacat	ggagactggg	aattacattt	gcagaaggag	8520
cgcaatgccc	ttgaagggct	cagccacgag	cagccagctc	ccagggctca	gaaggcccag	8580
ctgttagaac	cctgggagcc	agcaaagagc	caggggctcc	acctaagtct	atagcccctg	8640
cctcttcttg	ttgggaaaga	aatcaacgcc	cctttactgg	ctcccactga	cagcccactc	8700
ccccagggtat	gggaggatct	tgggacgatg	caggcaaacc	tggaccctga	gtgaacctgc	8760
cccagctctc	acgggcctgg	caccagccac	agcacctaag	gcgcccgtca	tgggtgacaac	8820
atgaagggtga	taagggcatg	gacagtggac	atggcagctg	gacactgggc	acccactgga	8880
tgccaggcac	ccagcacggc	tccgtcacc	ctggatgagc	agtggccctt	tgcaagccag	8940
ggtagcctgg	gcaagttatt	tgggggtctc	caagcttgct	cagctgtgcg	acttactga	9000
gccatgagtc	tgggatttta	tcagggccca	caccggttcc	tggaaactctg	atacgtgagg	9060
gagccacaca	gggaccctta	acaaaagctc	ccagggcaac	atgttctctt	gcctcagtct	9120
cccaaatagc	tgggattaca	ggcgcacgac	taccgcccgg	ctaatttttg	tatttttagt	9180
agagacaggg	tttcaccatg	ttggccaggc	tggctctgaa	cccctgacct	caaatgatcc	9240
ttccactgtt	agggcaaggc	acctgacagg	cagactgca	cgatctgctt	gttgggggct	9300
gtgtccattc	cccactcctt	cgacaaatgt	ccacacccag	ccttgctttg	acaccccagg	9360
aacagagatg	gtgacacctg	cttctacat	gcccattgct	ctcccaaggc	agacatcccc	9420
agcagatgca	acacagtgtt	taggcagaca	tcaccaatcg	atggtggcaa	cagacaccag	9480
gccctgctcc	ctctaactcc	agtggccagg	ccccaaagcca	gctctcacct	gcccactccc	9540
aacccacagc	agcaagactc	agaaatggca	aaaacacaaa	gagaacagaa	acgcccata	9600
gcgggaggat	gactaaaaga	catgtcttga	taagatatgt	ttcaggcata	ggccaggcac	9660
agtggctcat	gcctgtgatc	ctagaacttt	aggaggctga	ggtaggtgga	tcacctgagg	9720
ttaggagttc	aagaccagcc	tagccaacat	ggtagaaacc	catctctact	aaacatacaa	9780
aaattagcca	gacatagtag	cgggcgctg	taatcccagc	tgcttgggag	gctgaggcag	9840
gagaattgct	tgaacctggg	aggtggaagc	tgtgtgagc	cactgtactc	caacctggac	9900
aacagagcaa	gactctgtct	caaaaaaaaa	aaaaaaaaaa	gatatacctt	actaaaactc	9960
atgtctttga	tacatattta	cctcctgcaa	tcgcaaatgc	ttctgcagtg	cataaagtga	10020
aataaatagc	aggaagcctt	acggttcgat	caccacacac	gacacacagt	cacatacagg	10080
aaaaacgcag	ggagggctgg	ggaacaaaaa	aacagaagat	aaaatgtgga	gacagacaca	10140
ccaagagagt	aagagaccac	ctccagacct	cccttcagct	tctcaaacac	acgagccggg	10200
cccgttacag	aatttgcggg	gaccgctgca	aaatgggaag	gcagacagcc	ccttactcaa	10260
aaggtaggaa	tttcagggtca	acaacagagc	tcacctcata	tgactacaca	ggtcacacag	10320
cccgtgaagt	cggtcccaac	accagcatgc	tctgcctca	aagccgctgc	acgtgctgtt	10380
ccttctcgcc	tttccctctt	ttagtccttc	agatctcagg	cctcctgaga	gagacctctg	10440
acctgccggc	tcaggcgggc	acacccccag	tacaggagtc	tccggctcag	cccctgctgt	10500
gttccgtacc	cgatccaggt	ctgtcctatg	tccatctgtg	tgcgggcttg	cttccctgaca	10560
tggcccccac	cacacgtgtg	cctcggggca	ggggaacagg	cccgtctcat	taactgcttt	10620
cttctcagat	atcttctgga	atatttgtgg	atattgggca	acatatatgc	tccacctttt	10680

tcagactagc	caggacgagc	tgcatttttt	tttttttttt	tttgagacag	ggtctcactc	10740
tggtgcccag	gctggagtat	agcggcatga	tcttggtcca	gtgcaacctc	cgcctcctag	10800
gctcaagcaa	ttctcctgcc	tcagtctccc	aagtagctgg	gattacaggc	ccgtgccact	10860
actgcccagc	taatttttat	atttttagta	gagatggagt	ttcaccatgt	tggccaggct	10920
ggtcttgaac	tcctgacctc	aatgatcca	cctgccttgg	actcccaa	tggtgggatt	10980
acaggcgtga	gccactgcgc	ccggccccgag	ctgcctgttt	tacacctttg	ccatattccg	11040
gtgattctct	ctccccctcg	tccccggcc	ctgactgtgg	tggccactcc	ctgccgtcat	11100
gagcccgtat	gtcctcactc	tttccctttc	cgccaggact	tcaaccaaca	ctgcagagcg	11160
caggggtccag	ctccagcact	gagttcagcc	tcttctcacc	aacagacagg	caggaaagaa	11220
aacaaactct	gagaaggcca	aggttcccgg	gcagccagca	agccaagcat	ccttctccgc	11280
tgaggcttgt	gcagccgagg	cacccccctc	tccagggagc	aggcagcgtc	ctggggcagt	11340
ctgcgaggga	gaccagggcc	cttgctccac	cagggcccca	ggtatggggg	cagcagcaaa	11400
ctcatggctc	tgggagccag	accccacctg	ctagaacctc	ctatgccacc	tgtgtggggc	11460
aacccccaggc	tgggtgacttg	ccctggcctc	ctctgtaa	aaagggtca	tccaacctgg	11520
tcaaaccact	cctccccctt	aagggtctat	aatcctccct	taacctgctt	ggtccaaacc	11580
cctggtgtcg	ccagggtcact	caggaggcag	ctcatctgga	ctccttccct	gggtccagtt	11640
tctctctcaa	cattgccttt	gaggccgagg	tgaacggtca	acagcgaagg	gccccagagg	11700
tgatggagga	gcgggtgtcc	aagacactca	ccctttctaa	tgcactgact	ccctcggtga	11760
ctcacttgtg	ccgtctcccc	cacccaccca	gccccagagc	ccagagtgcg	agcgccagag	11820
gccccgggatt	ctgtctgcac	cgcggggtcc	ccagtgcctc	ggagcaatgc	cagcaccg	11880
caagtgttcg	acaaatgcct	gctgaatgag	caaatggatg	gatgaacgaa	tgaatgagca	11940
agcagatgaa	tgaatggggg	gctgtccaga	gccgtgagga	ctaggccgcc	caagtcccca	12000
tttctcaaat	tctccttctc	ccgacttggg	aaacaagatg	cttggtcggg	gaggctctcc	12060
aaccatcccc	tgcagcagcc	ggcacagcgg	acagaccctt	tgatgtaaca	gccatgtctt	12120
cattaaagat	gccctgctct	cagaaagaga	aagacaaata	caaacctgga	aaatcctcac	12180
caaacgcagg	accctgccca	gggagcagag	aaaagaccca	cacgccacgg	gcgccacgac	12240
cacacacaca	ccccagccgc	tgcacacaaa	cacagaccct	agccagcaag	aacaggggga	12300
ccaggaaact	gttcctaaag	tcaggacccc	catgtgtcca	gacagcagtg	agagcaagga	12360
cacttctcca	tccaccggat	gccaggagag	tctttttagg	gggccccaca	ccgagactct	12420
gcccttagga	ctgttcctga	gtgtggaagc	cagcccactt	ggaagcccc	tgccctcccg	12480
agtgggacac	cggcacagga	agcaggccct	gtccccacc	actttctgca	agctgggccc	12540
catcacgcta	cagaaacggg	gaggactggg	cccagggatg	gcgctttcct	gacacctctc	12600
gttaccctct	cgcttgccag	gccccagggt	cagccccaga	ggccagactg	gctatcccag	12660
gccccgggagc	atccccgaag	gcgagctgca	tctgaa	gtgtgatttc	ccgaagggcc	12720
cgccccgaac	cgacacctgg	aaagaaagat	cctcagccgg	tgccccagag	gagaagagcc	12780
atgcctcact	gcaacacagt	cccaggaagc	accaagtgcc	tgaggaccaa	ggcggagagt	12840
aaaaaagtgg	aaaatatctg	gggcaaaaat	aaaacaaaac	aaaacaggat	tgacctcctg	12900
ggctcaagca	atcctcccaa	ctcagcttcc	cgagtagctg	ggaccacaga	cttgaatcac	12960
cacaccgccc	aagtggatca	tttcgaacgg	gtttgccgag	gttccttctg	gggcaccccc	13020
ggcgccgcca	accattccc	gccaggcccc	gccccgcccc	cccgccccgt	cccgctccac	13080
cgctcacct	gccttacacg	tctgcccgtt	gtcctgcagc	tgcacaccgc	tggggcaggc	13140
gcatgtgtag	aaaggctcgc	ttggggacag	caggcacagg	tgggagcagc	cgccattgtc	13200
ctcctcacag	cgagtgtgga	ctgagaaaac	caggacagac	tgagagaagg	ttccagaaga	13260
ggaccgtcac	ttgtttctga	atgagtcaca	tctgcctcg	tccccgtga	cagcctccag	13320
tgtgtccctc	tgcccacaa	tggcctcaa	gtggcatcag	ggacctcccc	gcgggcacca	13380
ttccacctgc	ctcatcgctg	gccccgtcca	catggggccc	tcagcctggc	cagacggcct	13440
gcaatttccc	caaaaccagc	ctgaccttc	ctggccaccc	tcacaccag	atgtgacctg	13500
cccatggagt	gacatcctcc	ccatctgctt	cctcccacca	agctcctatg	actagaacac	13560
cctccccagc	tctctggagc	ccccaaagga	caccctctg	caaaggctgc	ccccacgct	13620
ccaatggccg	gggtcaggac	ctgcctgtgt	ggtagtgcg	ggaaccccag	agacaatggg	13680
ctcctgggca	aaaggcttgt	cttgtctttg	tgctatgtgt	ggaccacagca	gcttccatag	13740

gaacactgtc	cttcttgctg	ggatggccaa	gcttgctact	ctcccaagcc	ctcctatgac	13800
caacagcaat	tgaacggaac	tcgataaatg	cttccagcac	ctcattcaaa	ccaggggaaa	13860
gctgggtgta	gcagcccaa	aatacggata	taactggaac	aacaaactca	tcaaaatgaa	13920
cctctccctc	cctcatgctg	ccccaaagtgt	agatggggtt	tgtgaccacg	actttctcac	13980
caggaaacag	ctccagagag	ccccaccctc	ctgtgtcctg	ctctgggaac	agctggcacc	14040
cctaggcccc	acatttcaat	tcaaagtcca	aaccttccat	aatggcctgg	ccagaaatct	14100
ccatccctgg	tcctgtgtgg	agtgggccac	tgtccccaga	gccgcagccc	cactgtcaca	14160
gaagctggtg	catttcccca	tcagggacct	ctgtcacaac	ccagcgtggc	ccccaggtg	14220
agaactgctg	attctgggca	gattattcat	tgataaatac	gcgacttgca	gggccaagca	14280
tggtgggtca	tacctgtgac	cccagcactt	tgggaagtca	aggtgtgagg	atcactggag	14340
cccacgagtt	tgagacaagc	ctgggcaacg	tggcaaaatc	tctcatctct	attaaaaata	14400
catacacaca	cacacacaca	cacacacaca	cacatatata	tgtatatata	aataaccata	14460
tatatatata	cacacatacg	tgtatgtgta	tataaataca	tatacacaca	cacacagaca	14520
acttcttctg	ggccttgaaa	acgaggcaac	cttcccttga	aatccccctg	ccactgctga	14580
gcctgaaata	gcccccatga	gctctgcaga	gggtcctct	gcaggcccg	gtcccccagc	14640
cagccacaca	cctccctcca	ttgcagcagg	taccttcta	gagagggggc	cccccagagc	14700
atgggcttct	gcagggagg	gtcacctgcc	ccccacccc	acccacgccc	gcgcaccccc	14760
acgccccgc	atcctccac	tcccctgccc	cgcgcccccg	ctccccccag	ccccctcacc	14820
ctctcccccg	tgccccaacc	ggcactcaca	aaaaggctgc	cgctcctggc	tcagcacctg	14880
gatgtccatg	ggtgagtata	gggactcag	gatctccttc	ctcttcccc	cagtgcgctt	14940
gttgcaggca	tggatggagc	gggtctgcc	gtctgtccag	tacagagtgt	ccccggagag	15000
cgtcagggcg	aaggggtg	tcaggctgcc	ctccaccacc	ttctgcctgc	agtcagggaa	15060
gcggggtgga	ggagccatca	ggagggtccc	ccgacagtca	ttgctgctga	cccaattaat	15120
ttcttttttt	ttttttgaga	tggagtctcg	gtctgtcgcc	caggctggag	tgcagtgatg	15180
taatctcagc	tcactgcaac	ctccgcctcc	cgggttcaag	caattatcct	gcctcagcct	15240
cccagtagtc	tgggatcact	gatgcccacc	actacgccc	gatgattttt	gtatttttag	15300
tagagacagg	gtttcatcat	gttggcaagg	ctggctctga	actcctgacc	tcagggtgatc	15360
caccacctc	agcctctcaa	agcgtgga	ttacaggcgt	gcgccaccat	gccaggcttc	15420
ccatttgctt	tcaaccagac	aagtgaggcc	aggtcaagag	ccccaggagc	tggcgccctc	15480
gtacatttct	cccgcgctgc	acagggcacc	tcccaaacac	agcctgtgat	ggtgacacac	15540
gggtccccc	aggtcaagt	gcaaagtctc	ccccaggga	gaaaggagga	agccatgcct	15600
ggcaaaaagc	acacctctcc	tgcccaacgc	tttaacctct	gtatacaaat	caggccatgt	15660
gcactcgctc	cttcttaca	tgctcataat	ttatacttct	agagtaaagt	aaacttgga	15720
tcaacccgag	aaacagctat	tcttttctag	atgcttacag	tgcccagcaa	atgaggactc	15780
gggtgtaagt	agattatgga	cactggaaac	aggatcataa	tgtgacgtgg	tcggtaatgt	15840
gcagttttat	ttgcttaatg	acctcgccc	cgtgacaggc	tccctgagg	tgggcctggg	15900
ggcagaggtc	cccgccacgt	ccccagccct	cagcacagtt	gccaggagag	ggtgacactc	15960
atgaagtggc	acagggaaga	tgggagctgt	gggtctgca	gatccaccac	ctcttctgtt	16020
catttttggt	gatgctgttt	tttaagaaaa	ttattgaagt	aaaattcaca	ggacatacgt	16080
ttactttttt	tttttttttt	ggagatgggg	tctcactctg	tcaccaggt	tggagtgcag	16140
tggtgtgatc	tcagctcact	gcaacctctg	cctcccaggt	tcaagcgatt	ctcccacctc	16200
cgcctccaga	gtagctggga	ccacaggcgt	gcaccaccac	acccagctaa	tttttggggg	16260
gtatcttttt	ggtagagaca	gggtttcgcc	atgttgccca	aggctggtct	tgaagccctg	16320
agctcaggcg	atccaccgc	cttggcctct	caaagtgtct	ggattacagg	cataagccac	16380
tgacccagc	ctaaatttac	cactttaaag	tgaatagtgt	tacctagtgc	attcgcaagg	16440
cgggtcagcc	tccacttctg	tctagtcca	aagcacttcc	attgccccac	aggcaaacc	16500
cacaccggc	agcagtcag	ccccagtccc	cgcccccagc	cccggcaaac	acttttgatg	16560
gacttaacta	cacacattct	caacatctca	tataaacgga	atcacaatat	acagcctctg	16620
atgtctgtct	tctttgactt	ggcaccatgt	tttcgagggt	catccaggct	gtagcatgtc	16680
agtgttcat	cccgtttag	gggtgaacca	tattccagtg	tgagacaga	aaccaatctg	16740
tgcattccatt	caccactgg	gggacctttg	tgtcatttcc	acctcggct	gttgtgcaca	16800

gtgctgctac	ggacattact	gtccattcac	atthttgtgtg	aagacctgtt	ttcgattctt	16860
aagagtatac	agctaggagc	ggaattgctg	ggtcatacgt	aatcaatgt	ttacgtctca	16920
aggaatcaac	aaactgtttt	ccacaatgtt	gtcttttttg	ttgtttttct	gagacagggt	16980
cttgctctgt	cacccaggct	ggagtgcggg	gggtgatca	tggtcactg	cagcctcaat	17040
ctcctaagct	caatccatcc	tcctgcctca	gcctcctgag	tagctgggaa	cacagggtatg	17100
taccaccatg	gccagcta	tttctaattt	tatttttttt	tgtttttggt	tttttgagac	17160
agagtctcgc	tctgtcgccc	aggctggagt	gcagtgggtg	catctcagct	cactgcaagc	17220
tctgcctccc	gggttcacac	cattctcctg	cctcagcctc	ccgagtggct	gggactatag	17280
tcaccggcca	ccacgcctgg	ctaatttttt	tgtattttta	gtagagatgg	ggtttcaccg	17340
tgttacccag	gatgggtctg	atctccta	ttcatgatcc	acctgccttg	gcctcccaaa	17400
gttctgggat	tacaggcgtg	agccaccacg	ccgacctta	cttttaattt	tttaatttta	17460
ttattttatt	ttattttttt	tttttttgag	acagagtctc	gctctgtagc	ccaggctgga	17520
gtgcagtggc	gggatctcag	ctcactgcaa	gctccacctc	ccaggttcac	gccattctcc	17580
tgctcagcc	ccccagtag	ctgggactac	aggtgcccac	cacgatgccc	ggctaatttt	17640
ttgtattttt	agtagagaca	gggtttcact	gtgttagcca	ggatgatctc	aatctcctga	17700
cctcgtgatc	cgcccgctct	agcctcccaa	agtgtgggga	ttacaggcgt	gagccaccgc	17760
gcccagcctt	tttttttttt	tttttttttt	ttttgagata	gagtcttgct	ctgtcgccca	17820
ggctggagtg	cagtggcggg	atctcagctc	actgcaagct	ccgcctccca	ggttcacgcc	17880
attctcctgc	ctcagcctcc	cgagttagctg	ggactacagg	caccaccac	cacacctggc	17940
taatgttttg	tatttttagt	agagacgagg	tttcaccgtg	ttagccagga	tggtctcgat	18000
ctcctgacct	cgtaatccgc	ccgcctcggc	ctcccaaagt	gctgggatta	cacgcgtaag	18060
ccatggcgcc	cagcccatgt	ggccattttt	cagttagaga	agccagaggc	ccatcactct	18120
cggttgctcc	ctgggccatg	ctctgcctca	gccagaagca	ctgagggaag	gtcagcctcg	18180
gcccttgccc	cagccacagt	cacagataaa	ggggcctgca	caggtctgtg	tggtctcaga	18240
gctcgtcacc	caacacacga	cgtttccatg	tgaatagccc	caggtgcatc	atgaagagcg	18300
atggccgctg	cagaggcaga	agaatccgc	ggggaagcag	gtgggagaga	ggctgagaac	18360
agaccagacc	ctggagctac	agaccctatg	ttccaaccct	ggctgggact	agctgtgtgg	18420
ctctgggcaa	attcacatgc	ttctctgtgc	acaggggatc	aaaatagcaa	acacaggcta	18480
ggcacagtgg	ttcacacct	taatccag	gctttgagag	gccgagggtg	acacatggct	18540
taagctcagg	agtttgagac	cagcctgggc	aacatggtga	aacctcgtct	ctacaaaaaa	18600
aataccaaat	aaattagcca	ggcgtgggtg	tacgtgcctg	tggtctcagc	tacttggaag	18660
gctgaggcgg	gaggaacact	tgagcccaag	aagtcaaggc	tgtggccgcg	tgtgggtggct	18720
cacgcctgta	atcccagcac	tttgagaggc	tcagggtggg	ggatcacttg	tgatcaggag	18780
ttcaagacca	gcctggccaa	catggtgaaa	ccccgtccct	actaaaaaaa	tacaacaatt	18840
tgccaggcgt	ggtggcgggc	acctgtaatc	ccagctactt	gggaggctga	ggcaggagaa	18900
tagttagaac	ttgggagggtg	gaggtttag	ttagccaaga	tggtgccgct	gcactccagc	18960
cagggggaca	gagcaagact	ccatcccaaa	aaaaaaaaaa	acaaacaaac	aaacaaaaaa	19020
agagggtcaag	gctgcagtga	accatgattg	tgccaatgca	ctccagcctg	ggtgacaaag	19080
tgagaccctg	cctcaaaaca	ataaaaaat	aaataaaaaat	aaaacataat	agcaaacgtt	19140
tcatagaggt	ggtatgagca	ttaaatgaac	tgataaacgt	ccctggaaaa	cagtaagtgc	19200
tatggaagga	ttcgtgcgcg	ccaccgccac	caccattagc	atgtttcaac	ctccatcacc	19260
ctcactgtcc	cctgtcacca	tcctttgacc	agggcactcc	cagctgcagc	ctttctatcc	19320
tcttgtccac	ccttcataac	tgtaagatca	ctcagctccc	aagaaccaca	gtctacaggg	19380
taaccacatt	tccaaatctc	aaaccagacc	cgtgggtctg	cacttccagg	gacaacagga	19440
tattttcaaa	ccagcccaaa	agagatgtgt	ggctcagcat	aagagggaaca	ggagaaactg	19500
aggcctcttg	ccctgagaat	gagcttgga	gtggatgtcc	cggcctcact	caaaccttca	19560
gatgactgag	gcccagccag	gagcttgagt	gtaccctcag	gtcataccct	gagccagaag	19620
cacccagcta	atccactcct	catcactgac	tcctcccca	taaaaaacct	gtttgtgtgt	19680
tcaggctgtt	aagttgtggg	ctgttttgtt	acacagcaat	ggataactaa	cacacgaggc	19740
ctggcaagtg	tggagcaaa	ctgcccgaagc	cctcaagtct	gttcatgtgg	gtgttggcct	19800
gtgtttgcag	aaatccagcc	actgagtcct	cccatgcagt	cactactgcc	ctctgcacag	19860

acacctgcc	catccctgcc	tgggccagga	gctccactag	tgcaggaatg	gggtctgccg	19920
tcccaggagg	atccctgaca	cctagcacag	ggctagcagc	aggcagcact	tggttagtga	19980
ataaactgcc	cttcacctgt	acacagaagg	gatgtttcta	taaggggtaa	ttaagtacag	20040
agctgggaag	ctatgctgac	cagaaggctc	taaaagcaat	taaccaacga	ggggaaaacc	20100
cttcctactc	attctcggcc	cattttattg	agcactgacc	atgtggaagg	ccccctggtg	20160
agactgggga	atgcaccaat	aactgagaca	gcttcgggct	gttgccctca	ggatgcctga	20220
gctgggatag	ggccagggtg	ggggtggtgc	gtgtgacagg	gttactgttc	acaaccctgc	20280
cgggccataa	gccctcccca	acaattccaa	aatccaaaac	gctctgaaga	tggaaagctt	20340
ttgttgetca	tctggtgaca	aaacctcatt	tggtgcatgg	gccgggtgcg	gtggctcacg	20400
cctgtaatcc	cagcactctg	ggagccgagg	ggaaggatcc	cttgagctta	ggagtttgag	20460
accagcctga	gcaacatgtg	agaccccgtc	tctacaaaaa	atacaaaaat	tagccaggtg	20520
tggtggcgca	ctcctgtagt	cccagctact	cgggaggtcg	aggcgggagg	atcgcttgag	20580
cctgggaggt	gggggctgca	gtgagctgag	attatgacat	tgcactccag	cctgggtgaa	20640
agagtggagc	tctgtctcaa	aaaaacaaaag	ttaaaaaaaa	aaaaactgtg	catgggtgtg	20700
ggctacagat	agtcttttct	gccctactta	gaatgaacgt	gccacatttg	ctatagaaat	20760
attcaagggc	tggtggcaaa	tgccacacag	accctgacgc	tgttccaagt	tctgagaagt	20820
cctgcattcc	tcagggcccc	agagtttcag	agaagagtct	gtaggcctga	gttaagaagg	20880
aacgccttca	aaagccctgg	ggacaaaagg	gaaaggggtg	ccccaggact	gcgtgggtac	20940
ctaccggaac	gagccgtcca	ggttggcacg	gtggatgaag	ctgagcttgg	cgtcagccca	21000
gtagagcttc	tgctcctcca	ggtcgatggt	cagtccattg	ggccagtaaa	tgtccgagtc	21060
cacaatgatc	ttccgggtgc	tgccatccat	ccctgcccgc	tcaatccggg	gcgtctcacc	21120
ccagtctgtc	cagtacatgt	acctgtgacg	ggggcagggc	aagagaagca	gctaacacag	21180
atctgttttt	tgtttttgtc	tgcatagatg	cagacatgaa	acaacagaca	gtgaacttgc	21240
cctaaaatct	cacccatcgg	aaataaccaa	caggtatggt	ttcaggtatt	cctgccttaa	21300
gctgggcaat	caaaaataac	tatttccaac	ttgttctcag	ttaacagtaa	attctgggca	21360
ccttcccttc	ttgtggatag	aaagattcct	tgttcttttg	atgattgcct	agtgtactct	21420
gctgtaagtt	ttttaaaaga	cttcagggtta	tttctgattt	ttttgctacc	atgaaaatgc	21480
tgtaaatgaa	cctctaaaag	gcaattcaaa	acactcagga	tggaaatatta	tttagtggtg	21540
taaagaaatg	agctatcggc	tgggccaggt	ggctcacacc	tctaattcca	gcactttggg	21600
aggccaaggc	gggtggatca	cgaggtcggg	agatcaagac	catcctggct	aacacagtga	21660
aaaccccgcc	ctactaaaaa	tacaaaacat	tagccaggcg	tggtagttag	cacctgtagt	21720
cccagctact	taggaggctg	aggcaggaga	atcatttgaa	cccgggaggg	ggaggttgca	21780
gtgagcagaa	atcgaccat	tgactcccat	cctgggcgac	agagcgagac	tccatctcaa	21840
aaaaaaaaaa	aagaaaagaa	aagaaatgat	ctatcaagcc	atgaaaagac	atggaggaaa	21900
cttaaatgca	tgtagtagg	tgaagagacc	aatctgtatg	agtccagttc	taaacactct	21960
ggaaaaagca	aatacacaga	gacagtaaag	catcagtggg	tgccaggagt	tggagaggag	22020
agggatgaat	gagtggagca	cagaaaatca	gggcagtggg	actatcctgt	atgacatgga	22080
atggtgggtg	catgtcctta	ctcatctgtc	taaaccaaga	atgtacaaat	caagggcgaa	22140
ccctcgtgta	aacgtggatt	ttgggtgatg	gtgcgtcagc	cagctttcat	cagttgtaac	22200
aaatgtacca	ccctgcacag	gatgctgaca	gttggaagg	ctgtgtgggt	gtgaggacag	22260
ggatgtatag	gaactcagta	cctgctgtct	atcaattttg	ctgtgaacct	acaactgttt	22320
gaaaaaatta	agtctattta	aaaacaacaa	aacatggcca	ggcacgatgg	cttgcacctg	22380
taattccagt	acttcggggg	gctgaggtgg	gtgggtcact	tgagccaccc	tgggcaacat	22440
ggcaaaatcc	cacctctaca	aaaaataaaa	attaaaaaaa	agttagctgg	gcatgggtgg	22500
acactcttgt	agtcccagct	acttgggagg	ctgacgtggg	aggatccctt	cagccctggg	22560
aggtcgaggc	tgactgagc	tgtgactgta	ccactgcact	ccagcctgga	tgacagagtg	22620
agaccctgcc	taaaaaaaaa	aaaaaaaaagg	ctgggtgcgg	tggtctatgc	ctgtaattcc	22680
agcgctttgg	gaggccgaga	tgggaggatc	acgaggtcag	gagatcgaga	ccatcctggc	22740
taacacggtg	aaaccccgtc	tctactaaaa	gtacaaaaaa	aaaaattagc	cgggcatggt	22800
ggcggacacc	tgtagtcaca	gctactcggg	aggctgaggc	aggagaatgg	cgtgaacccg	22860
ggaggcgagg	cttgagtgga	gccaagatca	caccactgca	ctctcagcct	gggagacagc	22920

aacactccgt	ctcaaaaaaa	aaagaataaa	acccatggct	gggatggacc	ctgaacctgc	22980
agctgcagct	gttcctgggt	aggtctgtgg	gcgacgtggc	tttgcttctc	catgttccca	23040
agagacaagc	atcacccatc	catgagaaac	aagcacatcc	tcagggcgcc	cttacgtgat	23100
ctctggccaa	tgaaccaaga	caaagtgagc	agacaccagg	tctgggatgg	caggtcccac	23160
ccccaccagt	gcccagtggt	ccctgtttgg	aggtgaccac	aggggtgtgt	cccagaggct	23220
gggcgtgact	ctcagcggag	accagagggg	aaccacacca	gcttggagga	ctcagttccc	23280
atcccagcca	gctgggatga	gccacaggac	acaagggtcg	gcagacctat	tgtgttttgt	23340
ccacccttca	cagcagagaa	aggggacagt	gcccagaatg	tcctctgagg	agcctcctcc	23400
cactcttggt	ccttgtaaaa	tgggtgctgac	tccttctctc	ccttcttctc	ggggtgggcg	23460
gcaaaccocca	ttcccctcag	ccttagcaag	tgatttagaa	acaggcagct	cgcccaagcc	23520
aggcatgaga	gtgatcccgg	gacacaggga	gaacaagccc	cgctttgccc	tctgggggtc	23580
tccattcagc	agaagaggca	aatgacagac	acacagccgc	ctcctccccc	accatggtgc	23640
tctgcagcct	caggagcctc	aggtgcacca	agggccaccc	catccagggg	gccatgcttc	23700
cttgagtgg	atcggttctg	agcgagtacc	atctccacct	tccagagggg	ctgtgacaag	23760
atcaacaaga	atgagggcat	aggagcctcg	aaccaaacat	gccctcttcc	ctgcagaggc	23820
tgactgcgcc	cagctgctat	caccaagccc	ctgctcctcc	ggccccgtgg	ggacagggta	23880
agaggggtgt	cacatggaac	agctctccaa	acagtccttc	tcaagctgct	gtctcctgtg	23940
catctagtga	gaacccaacc	aacaaaggga	aggtgggaat	tgctattccc	attaggcaga	24000
tgagaaaact	gaggccccga	aaggctggcc	tgttccagg	tacaggcgct	gagcggctgc	24060
tctgggaaca	cacttggtgt	ctgctgaggg	cccagccccg	gccatcatat	gactcaccct	24120
tcgccagcaa	agcccgggtg	tgggtgaact	tttcctggca	gcctgggact	ccaagggtgt	24180
ggcagccagc	ccagggaagg	ctcccgcgtg	cctgcggcag	acgccttgct	ttacctgcac	24240
gtccccaccc	ctaggagcct	ggacagagcc	cagaccctcc	gccacctcct	gagaaggtat	24300
caggggcatc	agtctggact	tgggggggaa	tcacacacag	ccttccccc	atgctccacc	24360
gtggccccatg	gaaaaggctg	gaaaacgtgc	aggagcagga	gcctccgcat	ggagcataat	24420
tcacattcct	tccccgagtt	tcataacaga	ggcctgctgg	tttccttaaa	tggggaattt	24480
gcgagccagt	cggtgaccag	agactgggtg	gcgtggacgt	gctcttgacg	agtctcaaac	24540
gctaccacaa	gcccagccaa	attccacgga	ggaaaatcga	cttccgaaga	aaagagctgc	24600
agcatggcct	tcgtgcagag	ccagctgcgg	ttgtgggtgt	gtgttatttt	aggggaagggc	24660
cattttgcat	tttaaagagg	gggttgggtt	tcaccctggc	tttaatttga	gaccgggggg	24720
ccactgcagc	cccttgctcag	gctggtacag	gcgggggact	cctcccatgc	taagccagt	24780
tctttctggc	cccagatcct	cagggggccag	agggctcatc	ccagagcccc	ctctgccacc	24840
cacatgggta	ccctgggcct	gggagggatg	tgccttccct	caaccctgcc	tggatgtccg	24900
cacggggcca	cctgcattgc	tgaaactgca	acgaagtcca	gtctcaggag	gggccccct	24960
ggctgcaggg	ctcttgatcc	ttttggccac	gtgcacactg	aggtggacgc	tcggaccacag	25020
agaccccctt	catgatgatg	gccggggcag	gaaccccctc	ctctgaggaa	ggaccctggt	25080
gggggacagc	actgcaggag	ggcacaggag	atgacggggg	ctctagcagg	gccgggagga	25140
aggccaagat	gctcctcgca	accgtgtgcc	tgtggccagg	acagaggaca	aaccaccct	25200
ccactgtccc	cactctcagg	acagcagtcc	tgccccagga	ctcagcgccc	acacttatgc	25260
ctgaggacca	ctattcaagt	cagtatttgg	cgagcagggg	ttgctgccgc	gggcgctgtg	25320
acaggctgga	atcctctccc	tctccctctc	cctctccgga	gacatggagc	ctacagggac	25380
agagtcagca	cctcagggta	ggaccatggc	tggcgtcatc	agcatcactg	gatctgatga	25440
gtgggagccg	gcatctcact	gttttcactc	tctcattcaa	atgactggag	caaagggaag	25500
gtgtggggag	aggcccagga	atcaacacta	aggtcaactt	tgccccagg	ggcaggggtg	25560
ggagtgaaca	gccacagggt	tgatcctggg	gagggcttct	gggagagaat	tcagaggcaa	25620
gcatgtagag	gaaccatttc	aaatagttaa	gaaaagccag	agccaaacag	ggacagttgg	25680
ctcgcagaga	tgatgcaggc	aaagccagct	cagatctgag	catgggaaag	actactccca	25740
accaagggcc	cagcatctcc	caaccaagca	ccaagtacct	cccaaccaa	tgccaagcac	25800
ctcccaatca	aatacctccc	aaccaagcac	ctagcacctc	tcaactggac	accaactact	25860
cccaaccagg	caccaagtac	ctcccaacca	agtgcgaagc	acctcccaac	caagtaccaa	25920
ttacctccca	accaagcgcc	tagcacctcc	caactgagca	tcatgcacct	cccaacagag	25980

catctagcac	ctcccaactg	atcacctccc	aacctagcac	cgagcacctc	ccaaccaagt	26040
gcagagcacc	tcccaaccaa	gtgccaagca	cctcccaatc	aaatacctcc	caaccaagca	26100
cctagcacct	ctcaactgga	caccaacaac	tcccaaccaa	gcgccaagca	cctcctaaca	26160
aagtaccaat	caccttccaa	ccgagcacct	agcacctccc	aactgagcat	catgcacctc	26220
ccaacaaatc	acctagcacc	tcccgactga	tcacctccca	acctagcact	gagcacttcc	26280
caaccaacat	agcaaaagcc	ataaagaagt	aaaaagacaa	aaccacgtag	gcatggagac	26340
tggactttctg	gtggcgagga	aagggcattt	ttattataac	gacagctaac	atttggtgaa	26400
ctcacaaact	gttcttggtg	ttttcctcat	gacatgcagc	atggtcacgc	ctctgtacag	26460
acaaggatac	tgaggcacag	agtggcaccg	tgccaacctt	gtctcatctt	tttatcgaac	26520
ctacatgcag	agtgccagca	aatccagctg	tcttttctct	tcagaacaga	tcccaaactc	26580
cgccactcct	tacccccaca	agtgaggtgt	ccccgctgct	gctttctgtc	gccaggatcc	26640
cggtataaac	cgtggagagg	gctcctgccc	ccacgccacc	caccccacag	ctcactctcg	26700
ctccagccac	caggggatgc	cttccagcac	gagtcagagc	tggcacctcc	tctgctcgag	26760
acctcatgtg	tctctctctc	acaccttggg	ccctgtttcc	ctacattctg	ctacagcccc	26820
tcaaacaggc	cccgcgccaa	accagcccag	ggcctttgca	ctggctgate	cctctgacctg	26880
gaccgcgctg	ccccagaca	gccacacggt	tctcagcctc	atctgcttcc	agtctcgact	26940
caaaagtcac	caagaggcct	tcccagcacc	tgagctccga	cgggaagccc	tcgccacagc	27000
acccaagcac	tgcttttatcc	ccctacgcac	acgtcccttt	caaatactat	tcattttacca	27060
tctcctccca	ctcactgaaa	gggcccagaga	ctgggctata	cccgtctgct	ggggagcagg	27120
accaggcgca	agggctcaca	aatgcagtgg	atgcctgggt	gggaggtgag	ggagctgcag	27180
cgaccacgc	tgggagggaa	cgcaatgaca	ggaggagcgc	aggtcctggc	gacacgatgg	27240
ccatggcagc	cgctgggtgag	caaccgcagg	ccggccctgg	gagagggctt	ctagcaagct	27300
gctatcttca	gcctctccga	ctactgcaga	tgccccctcc	tagccagaga	cactgctaca	27360
ccagccgacc	cttccaaaaa	gaaggctcagt	aaccccgcca	ctcctggagc	cacagtgcag	27420
ggggagaggg	ctgagagggc	aacagttcac	caagcggaac	agaggctgcc	ccggaggtca	27480
gctggctccc	cggcagctgc	aggggtggct	agccactcgc	gagggcagcg	agggcatacg	27540
aggggtccca	gggatgagtg	gttgcccagc	acagcacccc	tgggaggccg	ggggcacttc	27600
tcaggtagtg	ggggcacgag	gctgctctgg	cctgacctca	gggactcaaa	atactttggc	27660
gataaattcc	accgtgtccc	acccctgctg	gtaccccata	cttacacaca	gactggttca	27720
gatgcagaca	ctctcgcgca	catactcgct	cacacgggca	catacacgtg	cacacacagt	27780
cacatgcgca	cactcataca	cacacaaata	tccactcaca	cgcattgcag	cacacacacg	27840
gacacacaca	ggctcacacg	tatgcacgca	tatgcgtgca	cacgcacaca	cacacacaca	27900
cgctcacatc	ctcccactcc	cacactcagt	tgctcagaca	cacacacgcc	tggctctcac	27960
acaaacctgt	tgggctctga	aaggctccag	cccttcccct	gctcgtcaga	agccagtcaa	28020
tggcttccca	agtcaccaca	cagatcaaag	aggtgaactt	ggccacatgg	cactctgctt	28080
cctgagctcc	caaacaccag	ccttggtgag	gacagacctt	caccccacac	cctcattccc	28140
actaccttgg	gcaggcccag	aggaggggca	tctgcaggat	ctggcaacca	gccccctccc	28200
ccgggtcctc	gcagccggca	ccatgggagt	cagggggagg	tactgcaaaa	gggcaacagc	28260
aagttggtgg	ccccaggact	agagcccagg	ggtcttcagt	cctactccag	agcttggaca	28320
ctgtcccaca	gggcatggcc	aagggaaggg	cttccagagc	cctgacttca	gggaggaggg	28380
caggcgggct	cctgtggcag	gcctggatgc	atggccgccc	actcctggga	ctttctaacc	28440
tagaatatct	aggtcaggct	gggtgcagtg	gctcacgcct	gcaatcccaa	cactttggga	28500
ggccgaggag	ggtggatcac	ttgaggttag	gagtttgaga	ccagcctggc	caacatggcg	28560
aaaccctgtg	tctactaaaa	atacaaaaacc	tagccagggtg	tggtagtgca	cgccgtgaat	28620
cacagctact	caggaggctg	aggcaggaga	atcacttgaa	ctcgggaggt	ggaggttgca	28680
gtgagctgag	atcgtgccat	tgcgcaaaaga	agatctaggc	cggccccctca	accggtgagg	28740
tccaggctgg	gagtgtgag	agactgtggt	gacactgaat	gaactaacag	gcaaagggct	28800
tccaactgag	cctgggggtg	gtgggaaatg	gctcttgtgt	tctagtcaag	acctctgcca	28860
accagttctg	acactgacct	agcacagaaac	ctgacaggct	agcaagggcc	agggcttagc	28920
acagcccagg	taagggtgtg	tgtacggccc	ccagagtcac	tcccaggctg	caagaaaagg	28980
gacaaaaggag	ggacaagggg	tggccaagca	aactgttccc	tctgctcggg	agtctggggg	29040

gacctggcct	agctggccag	tggagctggg	ccacctcccc	ttaaactctc	caccccggac	29100
ttcgactcca	aagcttttct	gccaccacag	ctctccccac	ctgggatcac	ggccaggccc	29160
tgagccttca	agggcccag	tgaactcagc	cagactagga	gctgaggagg	acacagggca	29220
gcttccagaa	cggacccgag	aacctctccc	agcaggttct	gcttccagac	aaggagctgc	29280
actttttcag	ccaatgcaat	tagaaagcca	ggagaagggtg	caaattccac	ctgcctgagc	29340
gtcgcgactt	cccaggccgc	ccaccataca	cacagcaaag	atgtgtttta	ccattcaaac	29400
ccatggccaa	ccacatcggt	tgcctcagac	atgcaagttt	taaaaaggaa	cataactatg	29460
ggccaggcac	ggtgggttcac	gtctgtaatc	ccagcacttt	gggaggccga	ggtgggtgga	29520
tcacctgagg	tcaggagtcc	gagaccagcc	tagacacccat	ggtgaaaccc	catctgtacc	29580
aaaactacaa	aaattagctg	ggcgtgggtg	tgggcgctgt	taatcccagc	tacttgggaa	29640
gctgaggcag	gagaatcact	tgaacccggg	aggcgaaggt	tgcagtgagc	cgagattgtg	29700
ccactgcact	ccagcctggg	caacaaggga	gactccatct	caattaaaaa	aaaaaaaaaa	29760
aaaaaggaa	ataactatgg	agtctcaagg	ggaagtaatt	ccttcaacaa	taacaaatct	29820
tgaaagctga	gctctttttt	ttttttgaga	caggatctcc	tcactttgtc	gcccaggtctg	29880
gagtgcagtg	gtgggatcac	agctcactgc	agcctcgatc	tcccaggctc	aaatgatcct	29940
cctacctcag	cctcccaaga	agctgggatt	acagggtgcat	accatcacac	ccgattcatt	30000
tttgtatact	ttgaagagat	ggggtctcac	catgttgccc	agtgtggtct	tgaattcctg	30060
gactcaggtg	atctgcccgc	cttggcctcc	cagagtgtctg	ggattacagg	cctgagccaa	30120
cacccccacg	ggttcatttt	cagagtgcga	ccgagtgtctg	gggttacagg	cctgagccaa	30180
cccccccacg	ggttcatttt	aagagtgcga	ccgagtgtctg	gggttacagg	cctgaaccaa	30240
cccccccacg	agttcatttt	cagagtgcga	ccgagtgtctg	gggttacagg	cctgagccaa	30300
cccccccacg	ggttcatttt	aagagtgcga	ccgagtgtctg	gggttacagg	cctgagccaa	30360
cacccccacg	ggttcatttt	cagagtgcga	ccgagtgtctg	gggttacagg	cctgagccaa	30420
cccccccacg	ggttcatttt	cagagtgcga	ccctttttct	gaaaaacaac	ttgggtctcat	30480
gcaaattcga	gagagagatg	gtgacactcc	ccgccccctg	gacccagggtg	gagtgcgagc	30540
agggtttacc	cgtgagcggg	gtccaaggcg	atggccctcg	gctgggtcaag	gtcctgccag	30600
aagagcacct	tccgggatgt	gccattgagg	ttggccacct	cgatgcgggt	ggtctctgag	30660
tccgtccagt	acagcttctt	gcccccccag	tgcaggcgga	ggccgtcggg	agagaccagg	30720
ccggagatga	ccacgttctg	cacggcgggc	ccggtctggt	tcaggtaggt	ctgcttgatg	30780
gcctcctcgc	tcacgtctgt	ccagtacacg	gtcccttggg	aaaactggaa	gtccactgcg	30840
gccgcacctc	ccaggccgct	gaccacgatg	gtggactcca	gcttgactcc	gccggcgctc	30900
accagccgta	cgtcccggcg	gttggcaaat	agcaggagcg	gcgaggctgt	ggggcagaag	30960
caaaccgtga	gggccactgg	ctaagccagc	aagatacaca	gccctgggat	ggagcactat	31020
gcccagagca	ctcctggtac	tgccctgccc	atgcccaaga	cctccagttc	cttctccca	31080
cccctaaggc	gttgtcagga	agttgcctgg	gcagccccgg	cccgcatcat	tcagaggctc	31140
ctgcagcgca	gcaaacagcc	ttcttcccac	attcgggtgac	agcacctgtt	tgtttaccaa	31200
ctgttacgtc	tgttccccca	gatatgggtg	acccttctctg	ccatgccccaa	aacctcccac	31260
atcgtcctcc	agaggctaca	ggggccctgt	cctgttctgc	agagaagcca	catccccctt	31320
gttggcctga	cacaggggat	ggggacatgc	aggcacagca	ctggccatgc	tgctcgctac	31380
agaccagccc	acagggccac	attttttgag	gggttcagag	cccaggccag	acagagcctc	31440
aagattccct	tacaagtctt	tgaccactgt	ccaagctcag	gcccgtttcc	ttggccgtgg	31500
catcagcttc	ccatccaccc	ctgtattcca	tgtttctccc	accctgcttc	tggacattcc	31560
tacatttaaa	gggtcactct	ggaatgccac	cccttggtc	agacaccttc	cacagctccc	31620
tgtgccagtg	ccatgcagaa	caaggtcaga	ccccctagcc	tggcctccaa	ggccttggcc	31680
tctggcctca	cctacacttc	tctccaccac	cccaccccaa	gcattcctga	tctgcctgcg	31740
gccaggtctg	ctccctcacc	tcctgtgca	ccgcagccct	cagccccctc	tgctgtgca	31800
agaagcctca	tctcacagac	aacggtctca	ttcccacaac	gggtcfaatg	agaaatcagg	31860
agaggccttc	agaccatcac	cccaccagac	acctcagacg	tcggaccagg	aggggtccagc	31920
aacccccaac	acagactcag	agggactaag	aagccacatg	aggagtgaac	acaagatgtg	31980
gacaggagga	ggttaagggc	ctccagggag	ctccatcagt	ccgtgttctg	ctgtcagcag	32040
ggttaggctg	ggctggccac	aaacaccccc	aaaaaacatc	tgaagccttg	gcttgaaaca	32100

gctgacattc	ctcatgaaaa	ctgcagaccc	ctgggtcctc	ctgcgcagat	gggggagccc	32160
agccaacccc	acactcccac	cttcaccaag	aaagagaaa	ccaaaacaaa	ctcaactcag	32220
ccaatgacaa	tcacagaact	gaatcctgta	gttagttcag	ttggtttcat	ttcagcaggg	32280
gaaagatttg	cagcctctat	gagggtagct	gggaacacaa	agggccagag	catggcccag	32340
gagaccccag	cgagtgggg	tagatggttc	cgagcacagg	cctccctgcc	aagacaagca	32400
ctgggtcaaa	tcctggcccc	tccattccc	aggagacatg	ctccacagga	tgggaggaca	32460
cacagaggac	ctgaggccag	gaaaatgaca	gcggcgccctc	cgccgcccc	cccgtgctgt	32520
catcatctta	ggctctacagt	tctttgtggc	aacgagggac	actgtgaaag	tcaaacaaca	32580
ggaaggcata	ggccacaaat	aaagacaaac	gggacttcat	gggaagctaa	agattttgtg	32640
catcaaaaga	cactatcgag	agagtaaaaa	ggcaacccac	agaatgagag	aaaatatttc	32700
caaatcatag	atctactaag	agattaatat	ccatgaaata	cagagaactc	ctaaaactca	32760
acaatgagaa	aacaactaag	ccaactcaaa	aatgggcaaa	caacttgaac	agacatttct	32820
ccaaagatga	catataaatg	gccaataaac	acatcaaaac	aggcttaata	tatccctaata	32880
catcagggaa	atgcaaatca	aaactacaat	aagataccat	cttgcaccaa	ttaggacggc	32940
tactatcaaa	aaaacaaaat	agcaagtgtt	ggtgaggatc	tggagcaact	ggaacccttg	33000
tgcaccactg	gcaaaaatgt	gaaatgggtc	agctactatg	gaaaacagca	tggcagttcc	33060
ccaaaaactt	aaacacagaa	ttaccatatg	acccagcaat	ttcgcttttg	gttatatacc	33120
caaaagaact	gaaaacaggg	acacaatcag	atatgcatac	accttggatc	acagcagcat	33180
ccttcccaac	agctaaaaca	tggaggcagc	caggcatggt	ggctcacgcc	tgtaatccca	33240
gcactttggg	aggctgaggc	gggtggatca	cctgaggtca	ggagttcgag	accagcctgg	33300
ccaacatggt	gaaacccgt	ctctactaaa	atacaaaaat	tagctgggcg	tagtgacggg	33360
cacctgtaat	cccagctact	cacaagtctg	aggcaggaga	atcacttgaa	ccctggaagt	33420
ggacgttgca	gtgagccaag	attgcgccac	tgcattccag	cctgggtgac	acagcgagac	33480
tctgtctcaa	aaaacagcaa	aacaaaaaca	aaaaaaca	caaacatgga	agcaacccaa	33540
gcgtccctct	actgagggat	gaatagcggg	gcaaaatctg	ctccatccac	acaatggagt	33600
actattcagt	ctcaaaaagg	aaaaagattc	tggtcaggca	cggtggtctca	tgctgtaat	33660
cccagcactt	ggggaggctg	aggcgggtgg	atcacctgaa	gtcaggaatt	caaggccccg	33720
ctggccaaga	ctggcaccna	gctacacana	aagtatangg	ccccgaaa		33769

<210> 9

<211> 72049

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (8356), (8385), (38585)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 9

tataccttgc	goggaccttc	ggctcctgtg	gtgaagacaa	tatgaagaaa	atagaaatta	60
cccataatth	tgccacacag	acttagttgt	gtccatgtat	cttgtgcacc	ttttttctgt	120
ttacggatca	aaatcgactt	ttagggctcag	gcgcggtggc	tcacacctgt	aatcccaaca	180
ctttgggagg	ctggagtttg	ggttgggggg	tggatcactg	aagatcagga	gtttgagacc	240
agcctggcca	acatggcgaa	actccatctc	tactaaaaat	aaaagattag	ccaggcgtgg	300
tgggtgggtg	ctctaattccc	agctactccg	gaggctgagg	caggagaatc	gcttgaaccc	360
aggagacaga	ggttgcagtg	agccaggatc	acgccactgc	actccagcct	ggcaacagag	420
cgagactctg	tctcaaaaaa	aaaaataaaa	ataaaataaa	taaatacata	aattgacttt	480
taggagattg	gttcaaacaa	tgtgtgtaat	gttgtgtctg	agtgtttttc	atttatcggt	540
catgcaaatt	ccgacatcat	tcactcttct	ccagagtgtg	ctgttttctt	gcctgtgtca	600
tcacccgtca	ccttgaatgc	cctcgtttag	gtaaaataag	tacattttat	tcaaaaatat	660

ttgaggacat	ttgggttgte	tccaggttct	tggtcttgag	ttttgctggt	cttgtggagc	720
catggtggtg	tctggttgca	ggaacctcca	tgcgttccag	ctgctgcttc	tgccctgtgtt	780
cttagagagg	aaatgctggg	gtccgcgggt	cccgggctgc	tgaccaggaa	gcctgcggtg	840
ctttacggcc	cttccagaag	cgggagatgc	ccccacttaa	gtgtcagaca	ggcctttcca	900
cctcactggc	agctctgagc	ggctcccttc	tatttgagca	tgactgagaa	gttaccaatt	960
tccacgttta	ctgactgctg	tttctcctgt	taatttgat	ttatagtctt	cgctaattta	1020
ttgctagggg	tttgggtgtg	tccctattga	cttgtatgcc	ttttaatttt	ttaaacaaca	1080
ttaatatact	tcattttttt	agagcagttt	taagtttaca	ggaaaattaa	gggacaagta	1140
cagagagttc	cttccacctg	ctgtcctcct	ctcctcctcc	ccaccttccc	tccttcccct	1200
attgtaactt	tctttctgat	attataaaaag	tactcatgg	ctgggcgtgg	tggtcacgc	1260
ctgtaatccc	agcacgttgg	gaggcagagg	caggcagatc	acctgaggtc	aggagtcca	1320
gaccagcctg	gccaacatgg	tgaaaccccg	tctctactaa	aaacacaaaa	agttagccag	1380
gcgtggtggc	gggcacctgt	aatcccagct	actcaggagg	ctgaggcagg	agaatggcgt	1440
gaacctggga	ggcagagggt	acagtgagtc	gagatcgcg	cactgcactc	cagcctgggc	1500
aataagagtg	aagcttcgtc	tcaaaaacaa	agtcacacac	gcttcttgta	cgagggtcat	1560
ttggccgagg	ggccagatgg	ctcaccatct	agttgggaca	ggccatgagc	tcggaatgct	1620
ttttacatat	ttacatgggt	gagaagaaaa	taggagaat	aatgttttgg	gacatgggaa	1680
aatgacatgg	aatttgcatt	ttagtgtcca	taaataaagt	tttgtttgct	cccagctgtg	1740
ttgactgagg	caggctggct	tcctacagct	gcggcagagc	tgaggaggcg	ggaaggagac	1800
cgtgcaggcc	gcagcaccga	aaatatttgc	tctctggccc	ttcccagagt	gcttgccgac	1860
ctctgtccga	cagctagaag	gaaggatagg	accgctccga	cgataaccac	tggtgacatt	1920
tgagcgcgtt	tccttcccgg	cttttgtgtg	agagtggcag	tctgtttgct	tttgtggtcg	1980
ggatctgctg	cacgcacggc	gggctgtttg	catgaggctt	cctggaggat	agggctgggc	2040
tcggagctgc	acgcagtggg	gcgtgtcctg	catgcagtgg	ggcctcagaa	gagagctgtg	2100
gtgggcgggg	cagtgccaac	gctgggtggg	gccaggcctc	cacgctcaga	tcagccccgg	2160
cgacaggttt	gggccaccct	ctctctggcc	tctgtgcagt	ggcccaggcc	gtctgctctg	2220
cctggcacac	ttgcctctgt	ccttccactg	aagcgtcctt	cttaccctct	gctcccggct	2280
gggtacgttg	aattgtgtcc	ctcaaggaga	tatgctaaag	gtctaaccct	aggaacctgt	2340
gtatgtgatc	taatttggaa	acagggtctt	ggctgatgta	atcaagcgag	gatgaggcca	2400
ccctagagta	gggggcctat	atccacggtg	ctgggtgtct	catgagagca	ggtgagcaga	2460
cactgacact	caggggtgaa	ggctgcatgg	agtcagaaca	gggcttagtg	cgatggcggc	2520
cacaagccaa	ggaactccaa	gtatttctctg	caacaccaga	agctggaaga	tgccagggaag	2580
gatcctgccc	tggagccttc	ggaggagatc	tgtccctgca	gacgtcttga	cttttgattg	2640
cagggatgca	tgtcttaggg	tgtgtggggg	gggtgcatttc	tgatgttaga	agccacctgg	2700
ttggtggcga	tgtgtcacgg	gagccctctg	caggttctgc	gtgtccatgt	ggtcggggac	2760
agagggtggc	agggacggac	ggtgtcgagc	tggacatgtc	catgacgtcg	gccatccctt	2820
gggatggctt	ttttgttttg	aggataaggc	tgccctgccag	gaagctgtgc	cctgcctggc	2880
ccttgcccca	agccctggc	ctgtgcttgg	cctcgcgga	gggatgtcgc	ccttctctcc	2940
tgcatgctg	cagggaggaa	ggggagaggt	cagcagcccg	cctggaggag	gctcgggcga	3000
ggggaagggt	tcactttcag	gcaatgttgt	ggggctgttt	aaacaacccc	aaagaaaacc	3060
atlttgccaa	actgttagtt	tccaaacatt	ttacttcctt	ggtgtttaaa	taaattccta	3120
ccaagactct	gtagctggtc	ccagggaagg	agttggcctc	tcttctttat	agcccggcac	3180
agtcagtccc	ctgcacctgc	ccctcccaac	cccaggcctg	cttccccgtg	gccatggctg	3240
ctgcccggac	ctctctacac	acagaacctc	ctggaggcca	gctgtgggca	ccagccttgg	3300
cagggctgtg	gcggagccca	ggctgctggg	actctctctg	cagctgctcc	ctgctggcct	3360
ggctggacag	cgtccccacc	accactgggg	tcacctctgt	gctggtcaca	gctcactcag	3420
accttcaggc	aaatgggttg	gatcctgcct	ctctcccagg	tgtctcagtc	tctgcaaaac	3480
tcaaaaacct	cagaggcctt	gcagcctgag	gggtgtcaga	gacacctcct	tcgaatcagt	3540
aaacacctac	agattcaccc	cagcagtgaa	aggactgctt	cgccacagag	gtttgattta	3600
ctcctaagta	attggaaggg	atgccgagaa	taggttcctc	atggtgggac	tagaggccct	3660
ctgctgacct	agttaacaga	gggctagggc	tgggtgtgct	cagccctga	aggttctagg	3720

cccatttggg	acaccccgcc	agaacctgcc	acaacctgcc	atgtggtgac	agctacctaa	3780
atcccagagg	ctcttgagct	ggagagcaga	cctctcaatc	tcagcaggcc	ccccacacag	3840
accccataac	cctagtctgc	cttcacagta	cagttcgtgg	ctatgtgttc	acggatgggtg	3900
ttgttcacct	aaggctctctg	ccctgtgacc	ccaagggcgt	cctgagggca	gattccaagt	3960
ctgtttcgtc	cacccctcct	tccctagcag	cgggtccagg	gcctggcctg	aactagcttc	4020
ccacagagat	actggtggga	tgatgaaggc	agccaggcgg	caagtgaaaa	acgcacttcc	4080
tgcatgtgct	ggctcctggg	attgaagtgt	ttgaggaagc	aaagtgaagt	gagctttcct	4140
cttgcggtcg	tgtgtccttg	ggccggggagc	ctaccctctc	tgagcgttgg	ggctcctgtc	4200
agtagaatgg	ggcatcctca	tagctcaagg	ggtggtgtgt	gaaaattgtg	ctattgtgtt	4260
actttaatga	tttttttttt	ttcgagacaa	agtctcacc	caacgcgcag	gctggagtgc	4320
agtggcgcg	tctcagctca	ttgcaacctc	tgccctcctg	gttcaagtga	ttctcctgcc	4380
tcagcctccc	aagtagctgg	aattacagga	gtgcgccacc	aggcccgga	tatttttcta	4440
tttttagtag	agaggggggtt	ttaccatgtt	ggctaggctg	gtcttgaact	cctgacctca	4500
ggtgatccac	ctgcctcggc	ctcccaaagt	gctgggatta	caagcatgag	ccaccgcgcc	4560
cggcctactt	tagtgatttc	ttaggaggac	agagggaaacg	ggctggcaag	acaggcttgg	4620
aatgtgtttt	gggatcaagt	gccggtttct	gtctggcact	ggcgttctct	gtggggccat	4680
gatggacaca	ctgctgaggt	caagcgtgat	togtcttgog	ctgtgcctgg	cagtctcatt	4740
ggaaagtctt	gtagacatcg	tgtggatggg	gctcttcccg	gccaaagcct	tggggacctt	4800
ccaggactgt	gatctcccca	cagtggctgt	taagcagggga	cctttcgtga	agtggagtct	4860
ctggtccctc	ccaagtcata	gctagacagg	gactcgggca	tcgccaagcc	tggctgatta	4920
ttcactggat	gaggagacag	gcccagagag	gggcaggaac	ctgcccagag	tcaccagca	4980
ggccccagag	gtttcgggtc	cggattctcc	ctgctcatcc	ctggatgtag	tgctgctgtg	5040
gatgtggttc	tgtgctgggg	gctgtggaga	gcagggggct	tgtgccagga	ccccagttag	5100
ggtggcgccc	tcgccatgag	gccgactgtt	ggtatggggc	ggccatccac	tggggtgtgg	5160
ggaggaacag	ctttcctgag	gaggaggtgg	cgggaggaac	agcttccctg	aggaggaggt	5220
ggcgggtgctg	tgtgacctgg	gccttgaagg	acaggtccat	tgtcaacaga	acattttggg	5280
agtggagcct	agagggagaa	aatttggtga	aattcagatt	ccccctcccc	taccaataca	5340
caccaaataca	gatgccccctg	accagatcta	aatttggtctc	tcagagattt	ccattgtagc	5400
tgggcacttg	gggaaccttc	taagtgtctg	ctctgcctct	ccccagcctg	cctgcctcag	5460
tttccccagc	cctgggccccg	tgtcgtgtgt	gccatcacgt	gggcgcctc	tagtggagga	5520
atcagattat	gcaactccggg	gcttgaggca	ggagtcagga	ggggctcctg	tctttccttg	5580
aaacgttggga	tgccgggatac	ctggaacagt	ctctgcattc	ctcctggcga	gaaccagagc	5640
ctgggcacag	gggaccatct	gttggtttgaa	ggctgcagcc	tggcagggca	ctcaggagat	5700
ctggcagttg	gctgcagggc	caggtctagg	ggccagggca	tcagggaggc	tctgggctgg	5760
ttcagccccg	ggcccccttg	cagattgtga	cctgggcccc	tgtgcagggg	catggccaca	5820
ggatgctggg	aggggtctct	gacctgacc	ttcttggtctc	tgtgcatcct	tgagaccaga	5880
aaggctctgga	acaaatgagt	agacgatgcc	ctaacctggg	gagggagcca	catcctgatc	5940
ccagcaacct	cgggaaggat	ctgtcaggat	tatggggcac	cctggggggc	ccaagtctgc	6000
atgggtctcc	acttgcaatt	tctgtaggaa	gctctgataa	atccaaactg	ggggtcctag	6060
gacacagtca	gaaatgctga	taccgttgtg	tgtggagcct	cgggcctctg	gggtcaggag	6120
catgtggagg	gtgggcccag	ggggttcaga	agagaatcct	gtaaccccc	acccccaaa	6180
ctgaagccca	cttgagggcc	atggctgaaa	ggttgggggg	tctccgtgcg	tcctgtggag	6240
tgggtggtga	ggagtccttg	ggtttgcacg	cctctgggcc	tgagcggcgg	gaccccgctc	6300
acagcggatc	cctgggcccc	gttgctcaga	tgctctcaga	gtgttgctgt	ggccacggag	6360
ggagcctgag	ttaagcttct	cttggtccgg	ttgtacgctg	tcaggtcaca	ctggtgagtt	6420
aggcagggca	cagatgccca	gagcagaggg	aactttcctt	ggggattcaa	cacgtgcaag	6480
tcttaggggc	tggcaaatcc	tgccctcagc	tagagagggg	gcttttattt	gagaccagaa	6540
tcacctgagc	atcctcctgt	ccccagctgt	gtccagcctg	tctgcagggga	catcctgaga	6600
ggaccaggct	ctccccctcat	ccacctgcct	aagtgccact	ctgaacctg	tccacctgtg	6660
ccgtggaggg	gcgtgacctc	aagctgctca	gccagcagca	ggcttggccc	tggggggcag	6720
cagagaccca	ggtggctgtg	gggtgggtgc	ttcgtggcgt	ggttctgaaa	cttcgttgga	6780

agtgtgtgga	cagtgccttg	cctgtttctct	gtgggaccct	atttagaaac	gaggtctgag	6840
ttactggggg	tcactactgt	gttctgatgg	cccagctgtg	tggaggccgc	ggtgcagccc	6900
catccaagga	gccagggcc	tgggtctagc	cgtgaccaga	atgcatgcc	cggaggtgtt	6960
tctcatctcg	cacctgtgtt	gcctgggtgtg	tcaagtggtc	gtgaaactct	gtgttagctc	7020
ttggtgttcc	tgaagtgcc	cccgggtctc	aggcctcaga	accagggttt	cccttcatct	7080
cgggtggcctg	ggagcatctg	ggcagttgag	caaagagggc	gattcacttg	aaggatgtgt	7140
ctggccctgc	ctaggagccc	cccggcacgg	tgtctggggc	tgaagctgcc	ctcgggtggt	7200
ggagaggagg	gagcgatgaa	gtggcgctga	gctgggcagg	aagggtgagc	ccctgcaagg	7260
tgggcatgct	ggggacgctg	agcagcatgg	ccagcagctg	ggtctgcagc	ctgggtaccg	7320
gcgggacttg	tgggtggggc	tggtttgtgg	ccaggagagg	ggctggcagg	agacaagggg	7380
gactgtgagg	cagctcccac	ccagcagctg	aagcccaatg	gcctggctgt	gtggctctca	7440
gctgcgtgca	taacctctca	gtgcttcagt	tctctcattt	gtaaaatgag	gaaacaaaca	7500
gtgccagcct	cccagagggtg	tcatgaggat	gaacgagtga	ccatgtagca	tgggctgggt	7560
gcgtgtcacc	taacatcacc	agcctttgca	aggagagccc	tgggggctg	gctgagtatt	7620
tcccttgccc	ggcccacccc	aggcctagac	ttgtgcctgc	tgcaggccct	tgaccctga	7680
cccattgca	cctgtctcca	caggagccga	ggaggtgctg	ctgctggccc	ggcggacgga	7740
cctacggagg	atctcgctgg	acacgccgga	cttcaccgac	atcgtgctgc	aggtggacga	7800
catccggcac	gccattgcca	tgcactacga	cccgctagag	ggctatgtct	actggacaga	7860
tgacgaggtg	cggggccatcc	gcagggcgta	cctggacggg	tctggggcgc	agacgctggt	7920
caacaccgag	atcaacgacc	ccgatggcat	cgcggtcgac	tgggtggccc	gaaacctcta	7980
ctggaccgac	acgggcacgg	accgcacga	ggtgacgcgc	ctcaacggca	cctcccgcaa	8040
gatcctggtg	tcggaggacc	tggacgagcc	ccgagccatc	gcactgcacc	ccgtgatggg	8100
gtaagacggg	cgggggctgg	ggcctggagc	cagggccagg	ccaagcacag	gcgagaggga	8160
gattgacctg	gacctgtcat	tctgggacac	tgtcttgcac	cagaaccg	aggagggtt	8220
gttaaaacac	cggcagctgg	gccccacccc	cagagcgggtg	attcaggagc	tccagggcgg	8280
ggctgaagac	ttgggtttct	aacaagcacc	ccagtgtgct	ggtgctgctg	ctgggtccat	8340
gcgtagaaag	ccctgnaaac	tggagggagc	cctttgtccc	cctgncttca	gtttcctcat	8400
ctgtagaatg	gaacgggtcca	tctgggtgat	ttccaggatg	acagtagtga	cagtaagggc	8460
agcctctgtg	acactgacca	cagtacaggc	caggcctctt	tttttctttt	tttttttgag	8520
atggagtctc	actctgtcgc	ccaggctgga	gtgcagtggt	gtgatctcag	ctcactacaa	8580
cctctgcctc	ctgggtccaa	gtgattctcc	tgcctcagcc	tcctgagtag	ctgggattac	8640
aggtgcctgc	cactgtgctt	ggctaattgt	tgtatttttg	gtagagatgg	ggtttcaccg	8700
tcttgggccag	gctgggtcgca	aactcctgac	ctcagggtgat	ccacctgcct	cagcctccca	8760
aagtgtctggg	attacaggca	tgagccacca	cgcccgggtca	ggccaggcct	cttttgaaca	8820
ctttgcacac	catgggtctt	ttcatccagg	ggggtaggta	cagttgtaca	gttgaggaca	8880
ctgaagccca	gagaggctca	gggacttgcc	caggggtcaca	cagcaggatg	tggcaggtgt	8940
ggggctgggc	ctggcagcgt	ggctccagct	ttccagcata	gaaatctgtg	aaagcagata	9000
gtttgtcggt	cggtagggga	gactttctga	gacccgcccc	agcggctcag	agggtagtag	9060
ccaggggcct	tcctgggggc	tcataaccca	gaacactgaa	tgggaaaacc	ctgatggagg	9120
aggcgagctg	gagctgtggg	tgcgatggg	aagtcccaga	ggagctggga	ggtcagtagc	9180
ggtgctgccc	tctgtggagc	acttagtggg	caccaggtgt	gtttccaggt	tcatggccct	9240
gggacctgaa	gctcagaagg	tgaagtaact	tgccaggggc	accgctcggg	cagcggcggg	9300
cagaggattt	gtgggtctgtg	gagcctgtgc	tctgtggccc	gccctggggg	ttgtgagtgt	9360
gctggccggg	gagcttttcc	tgcaagtgga	ctgggtgtcta	ggagccagca	tgtcaggcag	9420
caggcagcgg	gagtgcagca	ggcagcggga	gcacagcagg	cagagggcgg	ggctcgagca	9480
gccatccgtg	gacctggggg	cacggaggca	tgtgggagag	ggctgctcca	tggcagtggc	9540
tgaagggtctg	ggttgtgccc	cgaggagggt	ggatgagggt	aagaagtggg	gtccccaggg	9600
gcttttagcaa	gaggaggccc	aggaactggg	tgccagctac	agtgaaggga	acacggccct	9660
gaggtcagga	gcttgggtcaa	gtcactgtct	acatgggcct	cgggtgtcctc	atctgtgaaa	9720
aagggaaggga	tggggaagct	gactccaagg	ccctccttag	ccctggtttc	atgagtctga	9780
ggatcccagg	gacatgggct	tggcagctctg	acctgtgagg	tctgtgggtc	cagggagggg	9840

caccgagctg	gaagcgggag	gcagaggggc	tggccggctg	ggtcagacac	agctgaagca	9900
gaggctgtga	cttggggcct	cagaaccttc	acccctgagc	tgccacccca	ggatctgggt	9960
tccctccttg	gggggcccc	gggaacaagt	cacctgtcct	ttgcataggg	gagcccttca	10020
gctatgtgca	gaaggttctg	ctctgcccc	tccctccctct	aggtgctcag	ctcctccagc	10080
ccactagtca	gatgtgaggc	tgccccagac	cctgggcagg	gtcattttctg	tccactgacc	10140
tttgggatgg	gagatgagct	cttggcccc	gagagtccaa	gggctgggtg	ggtgaaaccc	10200
gcacaggggtg	gaagtgggca	tccctgtccc	aggggagccc	ccagggactc	tggtcactgg	10260
gcttgccgct	ggcatgctca	gtcctccagc	acttactgac	accagcatct	actgacacca	10320
acattttacaa	acaccgacat	tgaccgacac	cgacatttac	cgacactgac	atttaccac	10380
actgtttacc	aacactgaca	tctactgaca	ctggcatcta	ccaacactga	catttaccga	10440
cactgacatt	taccaacact	atttaccac	actgacatct	actgacattg	gcatctacca	10500
acaccaacat	ttaccgacac	caacatttac	caacactgaa	atttaccgac	accgacattt	10560
accgacaccg	tttaccacaa	ccgacgttta	ccgacaccga	catttaccga	cactgatatt	10620
taccaacact	gacatctact	gacgtgggca	tctactgaca	ccgatgccag	catctaccaa	10680
caccgacatt	taccaacact	gacattttacc	aacactgaca	tttaccgaca	ttgacattta	10740
ctgacactga	catctactga	cactggcatc	tactgacact	gacgtttacc	gacactagca	10800
tctactgaca	ctgacattta	ccaacaccag	catctaccaa	caccgacatt	taccaacact	10860
gacattttact	gacactgata	tctactgaca	ctggcatcta	ctgacaccaa	catttaccac	10920
caccagcatc	taccaacacc	gacattttacc	aacaccagca	tttaccacaa	ccgatgttta	10980
ccaacgcoga	cgtttaccga	cgccagcatc	taccaacact	gacattttacc	gacaccgaca	11040
tttaccgaca	ctgacattta	ctgacactga	catctactga	tactggcatc	taccgacact	11100
gatattttacc	aaogccagca	tctactgaca	ctgatgttta	ccaacaccga	catttaccag	11160
caccgacatt	tactgacacc	aatattttact	gacatcaaca	tttagccatg	tgatgggggc	11220
cggtctgggg	gcaggccctg	ctcttggcac	tggggatgct	gcagagacca	gacagactca	11280
tggggctcatg	gactttctgct	tcttctccag	cctcatgtac	tggacagact	ggggagagaa	11340
ccctaaaatc	gagtgtgcca	acttggatgg	gcaggagcgg	cgtgtgctgg	tcaatgcctc	11400
cctcgggtgg	cccaacggcc	tggccctgga	cctgcaggag	gggaagctct	actggggaga	11460
cgccaagaca	gacaagatcg	aggtgaggct	cctgtggaca	tgtttgatcc	aggaggccag	11520
gcccagccac	cccctgcagc	cagatgtacg	tattggcgag	gcaccgatgg	gtgcctgtgc	11580
tctgctattt	ggccacatgg	aatgcttgag	aaaatagtta	caatactttc	tgacaaaaac	11640
gccttgagag	ggtagcgcta	tacaacgtcc	tgtggttacg	taagatgtta	tcattcggcc	11700
aggtgcctgt	agacacagct	acttggagac	tgaggtggga	ggatcgctgg	agtccaagag	11760
tttgaggcca	gcccgggcaa	aggggacaca	ggaatcctct	gcactgcttt	tgccacttac	11820
tgtgagattt	aaattatttc	acaatacaaa	attaagacaa	aaagttaatc	acatatccac	11880
tgccctgctt	aagacagaaa	acatgggtgt	tggtgaagcc	agaggcagct	gctggcctga	11940
gttttggtgat	tgggttcctaa	gcagttgaag	gcagttttgt	ttttccatag	atgtctgttc	12000
tccctttgct	gggtgcagcc	tgcacctgct	gctgtggtcg	ggtttcagtg	gcctcgctcc	12060
gtggacgcag	cctcgccctg	ccgctgtggt	cgggtttcag	tggcctcgtc	ccgtggacgc	12120
agcctcgccc	tgcgctgtg	gtcgggtttc	agtggcctcg	tcccgaggac	gcagcctcgc	12180
cctgcgctg	tggtcgggtt	tcagtggcct	cgtcccgtgg	acgcagcctc	gcctgcgcgc	12240
tgtggtcggg	tttcagtggc	ctcgtcctgt	ggacgcagcc	tgcacctgcc	gctgtggtcg	12300
ggtttcagtg	gcctcgctcc	atgggcgtgc	tttggcagct	ttttgctcac	ctgtggagcc	12360
tctcttgagc	ttttttgttt	gttgtttgtt	tttgtttgat	tttgtttgat	tgttttgttt	12420
tgttgtcggt	gttgttgccc	aggctggagt	gcagtggcgc	gatctcagct	cactgaaacc	12480
tctgcctcct	tgggttcctg	ccattctcct	gcctcagcct	cccacatagc	tgggattaca	12540
agtgcgccgc	accacgcctg	gctaaatttt	gtattttttag	tagacagggg	gtttcaccat	12600
gttggtcagg	ctggtctgga	actcctggtc	tcacatgac	cacctgcctc	ggcctcccaa	12660
agtgttgagg	ttacaggcgt	gagccaccgc	gcccagccct	ctgttgagca	tattttgagg	12720
ttctcttggt	gccagtgata	tgtacatgtg	tccccatcgc	accatcgctca	cccattgagg	12780
tgacattggg	gcctctcctc	gggggtggatg	cctccctctg	tttccagcaa	cttctgaagg	12840
attttctctga	gctgcatcag	tccttgttga	cgtcaccatc	ggggtcacct	ttgctctcct	12900

cagggctccc	aggggaggcc	cgaatcaggc	agcttgccagg	gcagggcagg	atggagaaca	12960
cgagtgtgtg	tctgtgttgc	aggatttcag	accctgcttc	tgagcgggag	gagtttcagc	13020
accttcaggg	tggggaaccc	agggatgggg	gaggctgagt	ggacgccctt	cccacgaaaa	13080
ccctaggagc	tgcagggtgtg	gccatttcct	gctggagctc	cttgtaaata	ttttgttttt	13140
ggcaaggccc	atgtttgcgg	gccgctgagg	atgatttgcc	ttcacgcata	cccgtacccc	13200
gtgggagcag	gtcaggggact	cgcgtgtctg	tggcacacca	ggcctgtgac	aggcgttggt	13260
ccatgtactg	tctcagcagt	ggttttcttg	agacagggtc	tcgctcgcct	accaggcgga	13320
gagtgcagtg	gcgcaatcac	ggctcgctgt	agcctcaata	tccctgggct	caggatgatcc	13380
tcctgcctca	ccctctgagt	agctgggact	acagacacat	accaccacac	ccagctagtt	13440
tttgtgtatt	ttttgtgggg	ggagatgggg	tttcgctgtg	gtgccaagc	tgatctcaaa	13500
ctcctgaggg	acaagcgatc	cacctgcctc	ggcctcccaa	agtgcaggga	tgacaggcat	13560
cagccgtcac	acgcagctca	atgattttat	tgtggtaaaa	taaacaatagc	acaaaattga	13620
tgattttaac	cattttaaaag	tgaacagttc	aggctggggc	tgggtggctta	tgcttgtaata	13680
cccagtactt	tgagaggctg	agggtgggcag	atcacctgag	gtcaggagtt	tgagaccagc	13740
ctggccaaca	tgatgaaatc	cagtctctac	taaaaatata	aaaattagcc	gggcatgggtg	13800
gcagggtgct	gtaatcccag	ctactcgggg	ggctgaggga	ggagaatcgc	ttgagcccgg	13860
gagggtggagg	ttgcagtgat	ctgagatcat	gccactgcac	tccaatctgt	gtgacagagc	13920
aagactctgt	cttgaaaaat	aaataaataa	aaaaaatttt	aaaaagtga	caattcaggg	13980
catttagtat	gaggacaatg	tgggtgcagg	atctctgcta	ctatctactt	ctagaacact	14040
ttcttctgcc	ctgaaggaaa	ccccatgccc	accggcactc	acgcccattc	ttccctctct	14100
cccagcctct	gtcaaccact	aatctacttt	ctgtctctgg	gggttcactt	cttctggacg	14160
ttttgtgtga	ctggaatcct	gcaatatgtg	gtccctgcgt	gtggcttctt	tccatagcat	14220
tgtgttttcc	agattcaccc	acacattgtc	gcacgttatc	agaatctcat	tcctgactgg	14280
gtgcagtggg	ttaggcctgt	aatcctaaca	ttctgggagg	ccaaggcggg	acgatcactt	14340
gaggcaggag	tttgagacca	gcctggccag	cctagcaaga	ccccagctac	caaaaaattt	14400
taaaagttaa	ctgaacgtgg	tgggtggggg	cacttgtggt	tcccagctac	ctgggaggct	14460
gaggttggag	gatcgcttaa	gcccaggagg	tcaaggctgc	agtgcgctat	gatcgacca	14520
ctgcactcca	gcctggacaa	cagagcaaga	ccctgtctga	aaaaaaaaac	aaaaaaaaaa	14580
gttcctttct	ttttgtggct	ggatgacata	ccattgtatg	gccacagcac	attttgtttg	14640
tctgtttatc	gggtgggtgg	cagtgggttt	caccttttgt	ctcctgtgaa	taatgctgct	14700
gtgaacattt	gaattcaagt	ttttgtttga	acacctgttg	tgaattattt	ggatatatgt	14760
gtaggggtag	gattgctgag	tcctatggta	atgttaggtt	tgacttactg	aggaaccatt	14820
aaactgtttt	caacagtggc	tgcgcggttc	tgcaccccca	ccggcagtg	gtgaggggtc	14880
tgactttacc	tcctcacaaa	cgttcttttt	ccatttaaaa	aaatattcag	ccagggtgctc	14940
tggctcacgc	ctgtaatccc	agcacttttg	gaggccgtgg	cgggcgggatc	acctgagggtc	15000
aggagtccga	gacgagcctg	gccaacatgg	tgtaacccca	tctctaccaa	aaatataaaa	15060
attagccggg	tgtggcagcg	ggcgccgtga	atcccagcta	cttgggaggc	tgaggcagga	15120
gaatcacttg	aaccggggag	gcagagggtg	cagtgcagca	agatcgcgcc	actacactcc	15180
agcctgggtg	acaagagtga	aactccatct	aaaataaaac	aaaaataaaa	ataaataaaa	15240
atttattaaa	acattcatca	cagccagcct	agtgggtgtc	ccatgtggct	ttgcctcgca	15300
ttccctgat	aactaggatg	ctgagcgtct	tgtcccaggc	ttgccacacc	tcagcacttt	15360
gagatacgtc	gcacagtccc	catttgcgaa	cgagaaatga	ggtttaggga	acagcagctg	15420
tgtcatgtca	cacagcgagc	aggggtctc	tgagccgtct	gacccacacg	ccgaccaagc	15480
tccaatcctt	accgcctcct	agtgttgttg	atgtagccca	gggtgctccc	acattttttca	15540
gatgagaaca	ccgaagctca	aaacaggagc	gttttgtcca	cattggatac	acgatgtctg	15600
tggtttggtc	ctgaagtcac	tttatatctc	agtgtgtccg	actggagtag	gacaggggggt	15660
tctgggggaat	gggggaagggtg	tctcaggtga	aagggaaggaa	ttccagattc	tccatactgt	15720
ccttgggaag	ttagaagact	cagaggggtct	ggcaaagtca	gacaaagcaa	gagaaatgca	15780
gtcaggagga	agcggagctg	tccaggaaca	gggggtctgc	aggagctcac	ccccaggaac	15840
tacacttgct	ggggccttcg	tgtcacaaatg	acgtgagcac	tgcgtgttga	ttaccacttt	15900
tttttttttt	tttgagggtgg	agtctcgctc	tcttgcccag	tctggagtgc	agtggcacga	15960

tctcggtca	ctgcaagctc	tgcctcccg	gttcatgcc	ttctcctgcc	tcagcctccc	16020
gcgtagctgg	gactacaggc	gcctgccacc	gcgcccggct	aatttttgta	tttttagtag	16080
agatgggatt	tactacatt	agccaggatg	gtctcgatct	cctgacctca	tgatccgccc	16140
gtctcggcct	cccaaagtgc	tgggattaca	ggcgtgagcc	accgcgccc	gcccgatttc	16200
ccactttaag	aatctgtctg	tacatcctca	aagccctata	cacagtgcctg	ggttgctata	16260
gggaatatga	ggcttacagg	ccatgggtgct	ggacacacag	aaggacgga	ggtcaggagg	16320
tagaagggcg	gagagagga	acaggcggag	gtcacatcct	tggctttcaa	aatgggccag	16380
ggagagacac	cctctgagca	tggtaggaca	ggaaagcaag	attggaacac	attgagagca	16440
accgaggtgg	ctgggcgtgg	tggcttacgc	ctgtaatccc	aacactttgg	aaagctgagg	16500
tgggtggatt	gcttgaggcc	aggagttcaa	gaccagcctg	gccaacatgg	tgagacccc	16560
tctctactaa	atatacaaaa	attagccagg	cgtgatgggtg	catacctgta	atcccagctg	16620
cttgggaggg	tgaggcagga	gaattgctta	aacctgggag	gcggagggtg	cagtgaagccg	16680
agatcccgc	actgcactcc	agcctggggc	acagagttag	actccatctc	aaaaaaaaa	16740
aaaaaaaaaga	taaaaagacc	aaccgaggaa	ttgaagtggg	ggggcgtcac	agtagcagaa	16800
gggggatcgt	ggagcaggcc	accctgtggt	catgcactgg	aagctcatta	cctgacgatt	16860
tggagctcat	cactgggggc	ctaaggagaa	tagatactga	aggatgagga	gtgatggcgc	16920
ggggcacggg	tgtctttggt	ggccagaact	tggggactgc	tgggggtgct	cactgcaggc	16980
cttctcagcg	ccctttatat	gcttacacag	gctgtttcta	agagggggat	acattgcata	17040
agcgttttca	gactacctca	tcatgggtcc	ctttctttac	cctctgtggc	cctgggtggcg	17100
cactctctgg	gaaggtgcag	gtggatgccc	agacccgccc	tgccatccac	ctgcacgtcc	17160
agagctgact	tagcctcgag	attgctgctg	gcacctcctg	ccccgggaca	cctcggaatg	17220
gcccgtggag	atgctggctc	tgtgttttct	gctggagttt	ggtgcgtctt	ttcctcctgc	17280
aagtggccac	cgtcttggg	tatgtcctca	ggtctctgcg	agtcatggct	gcttctcagg	17340
tccttgccca	gcgccaggag	caaaccctcc	tggcactttg	ttcaggggtg	gatgcgccag	17400
tgttctctgt	gtggaccgcc	atctcacatg	agggctcttg	gcctgcaggc	tcgttcagga	17460
aacaccgcgt	gagtatgcag	tgtgtgccag	ctgtgtccca	ggcaatggcg	gggacagtgg	17520
ctgctgctgg	ggttgtgggtg	gcttctgggg	actctgggga	cagctgaggt	gcaaggagcc	17580
acggctcctt	gaggatgcag	ttggactcca	ggtggaaggg	atgggtgggg	gaggtataaa	17640
tggggtcagg	gaggagacac	atttggaaca	atgggaacat	ttttaagatg	ctatgtcggg	17700
aggcaacaag	gtggccaacc	caggtgctga	ggagcccaca	ccagccctgg	acgtgttttg	17760
cogctcacct	ttgctgggga	gtggtgggag	agaggattcc	gttccacgtg	gtggtgtgcg	17820
cagctgggct	gtgtggagct	gggcgctagg	aggaaggtgc	tttctgcggg	gctagccggg	17880
ctctgccttt	gaacacaatc	aggctccagg	ttttcagcat	ccagtgcattg	agaggacttc	17940
acgggcagct	gtggctgatc	ccttgatgaa	ttgggagaag	aacaaaggtc	tatgaaatga	18000
ggtttcatgt	agatggcatt	agagacgccc	acaacagatt	tacagagtgg	agcggagacg	18060
goggatgggt	ctgggaggcc	cctcctgctg	gccttgactg	tgacagctgt	cctgggaatc	18120
agcttcagg	ccgccccagc	agcctgactg	acacacacag	gggttttagc	cccatcctgc	18180
gaccagctgt	tgccatcatc	agtgacagct	gggagtggcg	gtggttccag	ccctgggcac	18240
cctccccacc	tgtgggggcc	caccagggc	agtcctgaca	cctacaggtt	gcttgaggcc	18300
gcatecgagt	cctgccccac	cacgtgtgaa	gcccagtggt	tcgtgggctg	aggtccctg	18360
attgcatccc	cacttccctt	ctgcttcaca	tagctgcctc	ttctcaccgt	ttttccagcc	18420
tcctgggcta	ggaattccag	tgttgtgctg	gctttgcccc	aggacacctc	cttagccctc	18480
ttctgagtc	tagagccccg	ggggttgga	gtcctggccc	ctgggacacc	tgcagccaca	18540
ctcagcttct	cctgtgagcc	tccagcatgt	ccccctagga	ccaagccctc	acgttcttgc	18600
ctccccgccc	acctgggctc	agccagggga	aggcctggct	gggagcgtct	ccccctgccc	18660
ctgcccctct	ccccctctac	cctgcccctc	tctcctctgc	cccgccatgg	cttttatatc	18720
ctgtgccaca	agacatggct	gtgtgtgaaa	gtggcaggggt	ctggcatctc	tgtgggtctc	18780
tgaggccccc	gctccagtgc	cactcttccc	acccgctggc	cgtgccctca	tgtggagggg	18840
acagcccagc	cctctcccga	accccagccc	catgtgccca	gctgcccccg	gcccctctcc	18900
ctggaagccg	gggtcactcc	agccgtatgc	catggtgggg	acatcctgct	tccttggcct	18960
tccagggaag	gtcctcttcc	caaatggcga	cacctgggtcc	ctgcctggag	gctggaagct	19020

gtggcccttg	tatgcccctc	cagggctctgt	gcgctcggtt	ggcccgagtt	cccatcaccg	19080
tcatcatcac	catcatcatt	gtcatttcgc	ttgtctgtga	gccggcctgg	tctcccagag	19140
cagagaccct	ctgaggtcca	gcctgagttg	gggtctccgt	gctgaccctt	gacggggact	19200
caggacgtac	caggtctggg	tcaggagtga	ccccaaacc	tcgtgccctt	tgacaggcac	19260
ccctgacttt	tgctaagtgg	gtggaggtga	catcacttac	agcgggagtg	atgggacagg	19320
gtctgttggc	tgactgtgc	tcccagggat	ctggggagag	gctatatccc	tgggctttgg	19380
cactgcagag	ctgtgtgtgt	ttgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	19440
gtgtgtgttt	gcgtgcgcgc	acatgtgtat	aagatctttt	tttattacat	gaagcaagat	19500
aactgttgct	gtttccctttt	gggttttgtg	ttcaacagag	tggggtactt	cttccctcag	19560
acaacagaac	tctcccctttt	aaacacgtgc	tgctcagagg	tgggtcttgg	gctcatgtct	19620
gtttgcacag	ccgagtcaga	ggaaacacag	ggttcttcat	aaaaacactg	cacagcaggc	19680
gactgtccag	agtcagcctg	caggacggca	gcagccctgc	ccctcagagc	acagctaggg	19740
tgggctgctt	tgggatctcc	cgtcattccc	tcccagctgg	cagccggcgg	ccggcccatt	19800
ccttggtgtg	ctggtcaggg	gggcgtgcgc	ctgctctgct	cacctgggga	atgggacaga	19860
agctggcagc	tcggagagga	cagggtcggg	cccttgggtg	gcctctggct	ggaccatctc	19920
attgtcctca	gacacagcct	ctcgggtcta	gtttcatttc	ctgaaaaaca	agtgcacaga	19980
actagagcag	gagtcgagag	ctacggcccc	cgggccagat	ccagccctgc	cacctgtttt	20040
cacaccatgc	tcaagctgag	tgggtttttac	atTTTTtaat	tacttgaaaa	aaaaaaagcc	20100
aaaggaggtt	tcatgaccca	tgaattattat	atggaattca	aaaaaaaaaa	attatatgga	20160
attcaaattt	cagtgtccat	aaataatttc	ttgagacagg	gtctcgtctc	gtcaccaggg	20220
ctggagtgc	gtgctatggc	atggctcgct	gtacccttga	cctcccaggc	tcaagcgatc	20280
ctcctgtctc	agcctcctga	gtagctggga	ctacgggtgt	gtgccaccaa	gcccggctaa	20340
ttttttttta	atttttagtaa	agacagggtc	tttctatggt	gcccaggctt	ttctggaact	20400
ccatcttggc	ctcccaaagt	gctgggatta	caggctcgag	ccacggagcc	cagcctgttt	20460
ttgttttttc	actgataaag	ttttgccggg	tgtggtagt	tgtgcctcta	gcgatttggg	20520
aggctgaggt	gggaggatcg	cttaagccca	ggagtttgag	gctgggctca	agtgatcagg	20580
aggtgaacta	tgatcatgtc	attgcattcc	agcctgggtg	acagagcaag	aacctatctc	20640
ttaaaaaatat	atatttataa	agtattgggt	gtggtggctc	acgcctgtgg	tcccagctac	20700
ttaggcatct	gaggtgggag	gatggcttga	gcccaggagt	ttgaggttgc	agcgagccaa	20760
gatcgtgtca	ctacactcta	gcctgggtga	cagagcccag	accctgcctc	tttaaaaaaa	20820
aaaaccaaaa	aacatgtatt	ggaacacagc	catgcctgtt	cagtcacgtg	ctctccatgc	20880
tgctttctgc	tccagagacc	cttatggcct	gaaagctgaa	aatattttct	atcctttaca	20940
aaaaagtttg	ctgacctctg	tcctggaaaa	ttcatctccc	aagttctctt	ccggcactgg	21000
cgttccctggg	tgctcctaaat	ttggccctcg	ttattttctga	actctgtttt	ggctctgttc	21060
cctcccagga	gccaggacag	gcacgttctc	tgcatcttgt	cccctgacgc	ccagaggctt	21120
ggctcggctc	aggcattctt	ggaaatatct	ggctccagga	aaggcagagg	cctcctgagt	21180
cggcccagag	ggaacctgcc	ccaggctctg	gggaggcctg	accagcaga	gtggcttttg	21240
ccgatgggtt	gggcccgtca	agatgtgctg	aaagtgtgcc	tcagaaggcc	actttgggat	21300
tccttcctcc	agtattagag	caactgagag	ctgctcattg	caagcctgat	gttttccag	21360
ttggccgggt	ccaccgggtg	ccctgggatt	ctgggatctg	ggtggaaagt	agggggcttg	21420
ggggagtgtc	ctgggttctg	gaatccaggt	ggcaagtggg	gaggttcagg	gagtggcttc	21480
tgagccacca	taggggtctc	tgtgggaggc	tctgccatc	caggagattc	cgcaggccct	21540
gccggcccag	agccagcgtc	ttgcgtttgc	cgaggctaca	gccagcccca	gccgggtgga	21600
acagcccgtc	gcctcctctc	actttgtttt	ggggccacct	gggagtgtgg	agcaagggtg	21660
gagagggagg	aagtggctgc	cggccgctgc	ccagcaccct	tgtttgctt	gggccctctg	21720
tgggctcctt	tttattgctc	ttcaatgaag	ccagggaat	ggacttcctt	gcctcacttc	21780
agttcaacat	gtctggaagt	ttggtattaa	aattaagaaa	gtgtggaaat	agagcaagaa	21840
gagaaaaatc	tctccaagag	ataatagtga	cctctgagct	gggcgcgggtg	gctcacgcct	21900
gtaaatccca	gtactttggg	aggctgaggc	gggcagatca	cctgaggctg	ggagtttgtg	21960
accggcctga	ccaagatgga	gaaacccctg	ctctactaaa	aataaataaa	taaataaata	22020
aataaataca	aaattagcca	ggcatgggtg	cgctgccta	taatcccagc	taaggcagga	22080

gaatcgcttg	aacctgggag	gcaaagggtt	cagtgaagcca	agatcacgcc	attgcactct	22140
agtctgggca	acaagagtga	aactccgtct	caaaaaaaat	aaataaataa	aaaataaaaa	22200
tagtgacctc	tgccaggtg	tggcagctca	tacccgtaat	cccagcactt	tggaaggaag	22260
gccgagatgg	gcagattgct	ttagcacagg	agtttgagac	cagcctggcc	aacatgggtg	22320
aacccccatct	ctacaaaaat	agaataaaat	ttaagaggta	atagtgcact	tttggttagat	22380
cgaaacctgg	attgctttct	ttttctaaat	gctgattctt	ttctttgttg	tgttttgtgt	22440
ctgtgcccga	gtccctcccc	cagccctgtt	attgtgagtg	gaagaagggg	aaaggggttc	22500
cccgtactct	tgagccccct	ctctcacgct	gggtgtcctt	ggagaagcct	gcacttcttc	22560
attgtacgcc	agggtctggg	ccctccctgg	agtgttcttg	tgctgctggg	atggggccaa	22620
ccccctcagat	gtttttctgag	tgtcacacac	agggtgtgtg	attcatggcc	tttgctgttc	22680
ttctgttgt	ggaggcaaaa	atgtgaagaa	ccctagatga	ttttgggacc	agggtcccat	22740
cacctgctgt	tcattgcaca	cgggagcatc	caggcatggg	tggagagctc	agacttccag	22800
gcacggtcgc	aggggctggg	ctaaccatgt	tcccgccgcg	ctgctcgta	gaaccgcctg	22860
ttgggagctg	ttatcatgat	accatacctg	ggccctgggc	tatccgattc	tgacttaatt	22920
gctccaggtt	ggggccaggc	cgttgtttgc	tgttttgttg	tttcttctgt	gacgttagcc	22980
actgggctaa	tctgagcccc	tcagttacag	gtggagaaac	tgagacccat	gggggtgcaa	23040
ggacttgccg	aggacccaga	gccccttggg	ggcagagctg	aggcggggcc	tggctttggg	23100
tcccagagct	tccagtcccc	ttcccgtctt	cctaacagct	tttttttttg	agacaagatc	23160
tcaccctgtc	accagggctg	gagtgcattg	gcattgatct	ggctcactgc	aatcttcgct	23220
agctgcgttc	cagcgattct	cctgcctcag	cctcccgagc	agctgggatt	acaggtgtgt	23280
gccgccatgc	ccagctcggt	tttttttgta	cttttagtag	agatagggtt	tcaccatggt	23340
ggccaggctg	atctcgaact	cctgacctca	aatgatccgc	ctgcctcggc	ctcccaaagt	23400
gctaggatta	caggctggga	tcacactgtg	cctggcccta	gcagctttgt	cctgtgccat	23460
ccaacaacag	atgaccgaag	tctttgtttc	ttaacatgca	ttccatctgc	cttacagttt	23520
tgccacctgc	aaaacagagg	acttgtcgct	tttctggtaa	gctggaaatg	taatctggta	23580
gcaggaggcc	tgtggaagct	tgcctttaat	ggccttgtgt	ctctttcatc	ctgtcctgag	23640
agccggagaa	cttggtatgt	gcacctaaat	caaccttctt	gttaacatac	agttctgcag	23700
gctcatggat	catcagaacc	acgtcctatc	tcacgcggct	gtatgcttcc	gttggttcag	23760
gtgtttttac	cttgacagta	ttttctcctc	ggtggttttt	gcgggtggtt	cttttaatac	23820
gcattgactc	ttcaagaaaa	atatttagct	gctacatctc	agaggagaca	gggtggaaag	23880
catctgagac	ctgcaggctc	agacttagaa	ccagaagtgc	cctcagagtt	catccggccc	23940
tgacccagcg	ggaaatgagt	tcacagagaa	gcggggagaa	tttgccccag	gccctgccgt	24000
tgtcataaac	tgccccaggt	ccttacattt	gctccagggt	ctgccccagg	ccctgcagtt	24060
gctcataact	gccccagggt	cttatatttg	ctccagggtc	tgccccagggt	cctgcagttg	24120
ctctgtgtgg	tgggtgtgat	ctggagccct	ccgcccattg	ctgcacctgg	ggcaggcatt	24180
gctaattgat	cccaggactc	cttcctgcgg	agcacgccct	ggttctccag	gcagccgctg	24240
cctgtcagcc	tgcagtgggt	cgggagagga	cacctgcttg	cctgggtctgt	tccaaatctt	24300
gcttctcatc	ccagcacagg	taggggtgtg	tatgggaaaag	ggatcctcag	ttggccctgt	24360
cactgtctct	tcagctgggg	acgtggcatc	ctagtgaata	catcatggcc	gggcgcgggt	24420
gctcacgcct	ggaatcccag	cactttggga	ggctgaggag	ggtggatcac	ttgaggctcag	24480
aagttcgaga	ccagcctggg	caacatgggt	aaacccatct	ctactaaaaa	tacaaaaaatt	24540
cgccagggtg	ggtggcgggt	acctgtaatc	cgagctactc	gggaggctga	ggcaggagaa	24600
tcgcttgaac	ctgggagggt	gagcttgcat	tgagccgaga	tcttgccact	gcactccagc	24660
ctgggcaaca	gagtgcagag	ctgtctcaaa	atctcaaaaa	aacaaacaaa	caaaaaacaa	24720
acaaacaaaag	cgtcatttat	ccagcacccc	tggggaacca	tgctacctgg	tgtttttatgg	24780
tacctggcaa	ggtgcagggt	aagttgctgc	tcttgggcat	tgaacccgtc	ttgtttgggg	24840
cagctcaggc	cccaggcagg	gtccgggttg	gctctcgttg	gtgtggccct	ggcccatcca	24900
gacctatatt	tctgccgtcc	tgcagggtgat	caatgttgat	gggacgaaga	ggcggaccct	24960
cctggaggac	aagctccgcg	acattttcgg	gttcacgctg	ctgggggact	tcatctactg	25020
gactgactgg	cagcgccgca	gcacgcagcg	ggtgcacaag	gtcaaggcca	gccgggacgt	25080
catcattgac	cagctgcccc	acctgatggg	gctcaaagct	gtgaatgtgg	ccaaggctgt	25140

cggtgagtc	gggggggtccc	aagccatggc	tcagccatgc	agacttgcat	gaggaggaag	25200
tgacgggtcc	atgcctgggc	ataagtgttg	agctcaggtg	ccccgacctg	gggaagggca	25260
ggacaggaaa	ggtgacagta	tctggccaag	gacagatggg	aagggacca	gggagctgat	25320
tagggagtgg	ttatggacta	ggaatgtcgg	taacaatggt	tagaaagtga	ctaaccatttg	25380
ttgagcacct	gctgtgtgcc	cggccctggc	cgggagcctt	cgtgcccaca	gtgaccccg	25440
ctgcaaagt	agttccttgc	cctactcgca	ctggggagca	ggacgcagag	ccgtgcaact	25500
cacaggtgcc	aagctcagga	ctccctcctg	ggctctgctg	ggctgggctg	tgcttgtttgc	25560
ccctgtggcc	cacgcagtgt	caccttccac	ctgaaagcca	ggatcttcag	gacgctcccc	25620
gaggaggtcg	ttgtctggca	caatgatattg	tctcttcctg	aaaaggtgac	agagttacac	25680
tggagagagc	agcatccagg	tgccggcagg	acaggcctgg	ggctcgcggg	cagggactct	25740
gtgtcctgcc	gggggtcccac	actgcacctg	cttgtcagag	gcactcagtc	aatctttgct	25800
gatgaaggat	gagaggacag	aggacgtgat	gcttgctgct	gcattgcctg	cagtccctggg	25860
tgagatgccc	gggttgactc	tgctgcccgt	cgggtggatg	tgatgtcaga	tccccggctt	25920
taaaatacga	gggagctggg	aattgaggga	gcagggtggg	gcagaaagca	cagccccgtg	25980
gaagcctgga	gctgaggcag	tgtgggcgac	ccctggagca	gtgagtgtct	ccttcattggc	26040
cttcacgcga	ccctgcagtc	ctcatgtagg	ggatgccatc	catgaattta	gttttcccag	26100
cctcctttaa	aaacgcgttc	atgctggggc	cggggcagtg	cagtggctca	catctgaaat	26160
cccaccactt	tgggaggccg	aggcgggtgg	atcatgaggt	caggagatcg	agaccatcct	26220
ggctaacaag	gtgaaacccc	gtctctacta	aaaatacaaa	aaattagccg	ggtgcggtgg	26280
cgggcgcctg	tagtcccagc	tactcgggag	gctgaggcag	gagaatggcg	tgaacccggg	26340
aagcggagct	tgacgtgagc	cgagattgcg	ccactgcagt	ccgcagtcct	gcctgggcga	26400
cagagcgaga	ctccgtctca	aaaaaaaaaa	aaaaagtaca	aaaaaaaaaa	aattagtctg	26460
ggtgtggtat	cacgcgccta	taatctcact	actcgagagg	ctgaggcgga	gaattgcttg	26520
aaccaggag	gtagaggttg	tagtgagccc	gtatcgtacc	actgccctcc	acctgggcaa	26580
tagagcgaga	ctctgtctca	aaaagaaaaa	aaaaaaaaaga	acatttatgc	cagggtgtggt	26640
ggctcatgcc	tgaatatccca	gaacttttga	agactgaggc	aggaggatca	cttgagccca	26700
gaaatttgag	agtgtcttcc	ctgggcaaca	tagagagacc	tcactctctac	cagaaaaaaa	26760
aaaattagcc	cggcatgggtg	gcataatccct	gtgggtccag	ctacttaggg	ggctgacgtg	26820
gcaggatcac	ctgagtctgg	aggcagaggt	tgaagtgagc	tgagatcatg	ccactgcact	26880
ccagcctggg	tgacagacag	agaccctgtc	tcaaaaaaaa	aaaaaaaaaa	aagcatttac	26940
tatccaccat	ggaagggtgag	actgacctgt	gagtgtattgt	tcaaagaaca	aaaaataaac	27000
cccagagata	agacaaaagg	gtgcctccat	gggggtgtga	tttaaagctg	agaaattggg	27060
cttcttcccc	ctccccctctc	accccggtgt	ttgctaaagg	agatgggaaa	aaggattcct	27120
ttttttggctg	aaatatattaa	cactaaatta	aagccaattt	taacagcact	ttggttgatg	27180
agtgaattaa	acagactggc	caaaaaataaa	cgaacggtct	gtactatgtg	aaaaagaggc	27240
agcttttgcc	atgctggggc	aatgtgagtt	ttcagggttg	ctgggaatgt	ctgtgaatcg	27300
gaggaagggc	ctagctggga	ctctcaggag	ccaaggccct	gaggggcaac	ttgcctggtc	27360
cctgccctga	ggcgttcact	gctttcttcc	tgggcccagat	cacaggcccg	gaggctggac	27420
cactgggctg	gcactcttgc	cgagctgtct	cctgacttcc	tgaccatgct	cctttcagca	27480
gccttgctgc	acttttagttt	ccttgaatga	aaaatgggga	tgagaatagc	tcctacctcc	27540
aagggtgaatg	gagtgtgttc	ggacaggtga	ctccctggga	ccagtgcctg	gcgcctgaca	27600
aggtccagtc	agagcccgcga	ctgctgttac	tgataccctt	ggctgtacca	ggggagaact	27660
tgggtgccat	tgccagggtg	tctcccacca	ccccactac	tgtccctgtt	tgatgtgtgg	27720
cgggaataaaa	gctgtgcaca	ttggagcttt	tggcacatcc	tggctttcag	gtgaaagggtg	27780
cgtgtgtgtt	tgagggttta	gcctggccaa	cccagccatg	aggtcggacc	tgacctgggg	27840
gtgagtcctg	agctcggcac	ccctgagctg	tgtggctcac	ggcagcatte	atttgtgtggc	27900
ttgggcccga	cccccttccc	tgctgggctg	ttgatgttta	gactggagcc	tctgtgttcg	27960
cttcaggaa	ccaacccgtg	tgccggacagg	aacgggggggt	gcagccacct	gtgcttctgc	28020
acacccacg	caacccgggtg	tggctgcccc	atcggcctgg	agctgctgag	tgacatgaag	28080
acctgcatcg	tgcttgaggc	cttcttggtc	ttcaccagca	gagccgccat	ccacaggatc	28140
tccctcgaga	ccaataacaa	cgacgtggcc	atcccgcctca	cgggcgtcaa	ggaggcctca	28200

gccctggact	ttgatgtgtc	caacaaccac	atctactgga	cagacgtcag	cctgaaggta	28260
gcgtgggcca	gaacgtgcac	acaggcagcc	tttatgggaa	aaccttgcc	ctgttcctgc	28320
ctcaaaggct	tcagacactt	ttcttaaagc	actatcgat	ttattgtaac	gcagttcaag	28380
ctaatacaat	atgagcaagc	ctatttaaaa	aaaaaaaaa	tgattataat	gagcaagtcc	28440
ggtagacaca	cataagggct	tttgtgaaat	gcttgtgtga	atgtgaaata	tttgttgtcc	28500
gttgagcttg	acttcagaca	ccccaccac	tcccttgtcg	gtgcccgttt	gtcagcagca	28560
ctctttcttc	atttatagt	caaatgtaaa	catccaggac	aaatacagga	agactttttt	28620
tttttttttt	tgagacagag	tcttactctg	ttgccaggc	tggagtaccg	tagcgtgagc	28680
tcagctcact	gcaacctccg	cctcccaggt	tcaagcgatt	cttctgcctc	agcctcctga	28740
gtagctggga	ctacagacat	gcaccaccac	accagctaa	ttttttttat	attttttagta	28800
gagacaggg	ttcatcatgt	tggccaggct	ggtcttgaac	tccagacctc	aggggaacag	28860
acgggggttg	cctcccaaag	ggcggaaata	acaggggtga	gccaccgttc	ccggcctagg	28920
aaaacttttt	gccttctaaa	gaagagttta	gcaactagt	ctgtgggctg	gccttctgat	28980
tctgtaaaga	aagtttgatt	ggtggctggg	tgcgggtggc	cacacctgta	atcccagcac	29040
tttgggaggc	cgaggtgggc	agatcacctg	aggctgggag	ttcgagacca	gcctcaccaa	29100
cgtggagaaa	ccccgtctct	actaaaaata	caaaaaaaaa	attaaccggg	catggcggcg	29160
cctgcctgta	atcgcagcta	ctcaggaggc	tgaagcagga	gaattgcttg	aacctgggag	29220
gcggaggttg	tggtgagctg	agatggcacc	attgcactcc	agcctgggca	acaaaagtga	29280
aactccgtct	cagaaaaaaa	aaagtttgat	tggtgtaacc	aaagcgcatt	tgtttatgga	29340
ttgtctgtgg	cagcttttgt	tctgccgaga	tgagttgtga	cagatctgta	tggtctctaa	29400
agcctaaaac	atgtgccatc	cgccccctta	cagaaaaagt	gtgctgacct	ctgttctaaa	29460
gtattggaca	actacaatgt	ttgtcatttt	attattctat	gatttgtttt	ctgctttttg	29520
ttgttgttgt	tgttgttgag	atagggtttc	cctctgtcac	tcaggctgga	gtgcagtggt	29580
gtaatttcag	ctcactgcag	cctcgacctc	ctgggtctct	gtgatcctct	catctcagcc	29640
tccctagtag	ctgggactac	aggcacacac	caccactcct	ggctgatttt	tttttttttt	29700
tttttttttt	gtggagacag	ggtttccgca	tgttgccag	gctggtttca	aactcctagg	29760
ctcaaacacc	cacctcagcc	tcccaaagt	ctgggattac	aggcgtgagc	caccatgccc	29820
agcctattct	actgtttgta	ttacatagct	ttaaaagatt	ttttatgact	ttaagtcaca	29880
agggttcttt	gtagaaaaaa	atatatatat	aggaaaagt	aaaaagaaag	taaaaattgt	29940
ccataacctc	tccagccaga	gacgaccgtt	gctgacacct	cagcatattg	cctttaagtc	30000
ttttttctct	aagatagcat	ttctcttcat	cacagtcata	tgctacgcag	aattctgtat	30060
cctgattttt	tcacttgaca	ttacaacagg	tatttgatgg	cgctgtgaca	aactctttgg	30120
cacaatcttt	taaatgtatg	aaatactcca	ctgcacagat	gtttgctttt	aggcttaact	30180
gttctttttt	tttgcggtgtg	ctgggttacag	ccgggacacag	tggtctatgc	ctgtaatcac	30240
aacacttttg	gaggggtgagg	caggaggatc	acttgagccc	agaagtttga	gaccggcctg	30300
ggcaacatag	tgagacccca	tctctacaaa	aaactttttt	aataagtcgg	gcgtagtggg	30360
gcatagctgt	agtcccagcc	accaaggagg	ctgagttggg	aggattgctt	gagccccagg	30420
agggtgatgc	tgagtgacc	tgagattact	ccactgtact	ccaacctgag	cgacagagca	30480
agacttgtct	ggggaaaaaa	aaaaaaaaaa	tatatatata	tatatatata	tatatacata	30540
tatacatata	cgcacacaca	cataatataa	aaatatatat	ttataaatat	ataatatata	30600
atataaaaa	atataatatt	aaataaaatt	tataaattat	atttataagt	aaatatataa	30660
tataataat	aaaaatata	attatataat	atataataaa	atatataata	taaaaatata	30720
tatttataaa	taatatataa	tacatactta	taagtatata	tttaaaatat	atgtaatgta	30780
tattttttta	tgtatgatat	ataatatata	tttataaata	cacatttata	ttattttata	30840
taaaatata	ataaaatctc	caagttgctt	tttccaaaa	ggtgtcttgc	tgcatttcaa	30900
acattcattt	aaaaacttga	atgctgggtga	tctggtccag	aatgtgttca	gtagctgctg	30960
ccagtggcca	agcatctcgg	gagatgtcta	caaaacacgc	tggttctggc	ctggcgtggg	31020
ggctcacgcc	tgtaatctca	gcactttggg	aggctgaggc	agggtgatca	actgaggtct	31080
ggatttcgag	accagccttg	ccagcttggt	gaaaccccat	ctctactaat	aatacaaaaa	31140
aattagccag	gcgtgggtgg	atgtgcctgt	aatccacact	acttgggagg	ctaaggctgg	31200
agaatcgctt	gaaccagggg	ggcagagggt	gcagtgcgac	gagatcgcac	cattgcactc	31260

caggctgggc	aagaagagcg	aaactccgtc	tcaaaaaaaaa	aaaaaaagat	gctgggttcc	31320
aaaatgtggc	ccttttctc	ctcacctgct	gccagaccat	cagccgcgcc	ttcatgaacg	31380
ggagctcggg	ggagcacgtg	gtggagtttg	gccttgacta	ccccgagggc	atggccggtg	31440
actggatggg	caagaacctc	tactggggccg	acactggggac	caacagaatc	gaagtggcgc	31500
ggctggacgg	gcagttccgg	caagtccctcg	tgtggaggga	cttggacaac	ccgaggtcgc	31560
tggccctgga	tcccaccaag	gggtaagtgt	ttgcctgtcc	cgtgcgtcct	tgtgttcacc	31620
tcgtatgaga	cagtgcgggg	gtgccaactg	ggcaaggtgg	caggctgtcc	gtgtggccct	31680
cagtgattag	agctgtactg	atgtcattag	ccttgatggg	ggccaggact	ggtagggccc	31740
tcagaggtca	tggagtccct	tcgtggagcg	ggtgctgagg	ctgtatcagg	cacagtgtcg	31800
gctgctttca	cctggggccg	ctcacccaag	tgtccatgga	gcctgcgtag	ggtgggtatc	31860
tgtgtcgatt	ttacagatgc	agaaacaggc	tcagagaaac	cgagtgaact	ccctaagggtc	31920
acatacccag	ttagagcaga	gctggggccag	gaagtgtctg	ctcaggctcc	tgaccagggtc	31980
tccttgcttt	gcactcttgc	caaaaccatg	atccagaact	gactttgagg	tccccggacc	32040
tcaggctcct	ccgaaatggc	ctcttgagg	ctgctgagcc	acagcttagg	accacacctcg	32100
agaggcaa	gtgctttgag	ctgccaggcg	tcctgggggc	cctgccttgg	gcacgggggt	32160
cagacaggcc	ccagatgtgt	ggggcgctct	tctggacttg	agttttcttt	tctgtgtggg	32220
ggacacagt	ctcacccctt	aaagcacctg	tgatgtgtgc	agcagcccaa	tccctgcctg	32280
tcgctgttc	tgctagggaa	ggaaggaata	cttcaggatg	gcaggacaac	agaaagaggt	32340
ccaggtttta	gagcaagggc	aggtcaaact	tagaaaattc	tggaatgagg	atgtgcattt	32400
cctcttctgg	atctgctaaa	agaagaggga	aggaggggct	gctgggggag	gagcccagag	32460
ccgagtttac	atccggatcc	cgcaaggcct	cccctgcctt	gaggtcttgt	tttgtgatgt	32520
gcttgtgtcc	atcctggttt	ctgccgtgtc	cccaacatcc	ggccaagctt	aggtggatgt	32580
tccagcacac	actcaccctg	tctgtgcacc	tgtttttgtg	tccgtaagtg	ggtatttact	32640
caccttacga	gtgagccact	gtgggaattc	aggaggtggg	cgcagtgacc	accctgggag	32700
ggatatgtgt	gtggcagggg	tcgaggggtc	cgccttcccc	tgttccctgc	gcgtggcttt	32760
ctccaggacg	gggagggctg	agctgaagag	gtggggacag	ttgcgtcccc	ccgccacca	32820
ctgtcctgcg	gtgagagcag	actcactgag	cctgccttcc	tcccttgtgc	cttccagcta	32880
catctactgg	accgagtggg	gcggaagcc	gaggatcgtg	cgggccttca	tggacgggac	32940
caactgcatg	acgctgggtg	acaaggtggg	ccgggccaac	gacctacca	ttgactacgc	33000
tgaccagcgc	ctctactgga	ccgacctgga	caccaacatg	atcgagtctg	ccaacatgct	33060
gggtgagggc	cgggctgggg	ccttctgggtc	atggagggcg	gggcagccgg	gcgttggcca	33120
cctcccagcc	tcgcccgcag	taccctgtgg	cctgcaagtt	ccccaacctg	gcaggagctg	33180
tggccacacc	cacgactgcc	cagcagcctc	accctctgct	gtgggagttg	tccccgtcca	33240
cccctgggtg	cctttgctgc	agttatgtcg	ggagaggctc	tgggtgacagc	tgtttccctg	33300
gcacctgctg	ggcactaggt	cccagctaat	ccctgtgcca	ggactcta	ttcacctaa	33360
cacacatggt	ggttttcatt	gctgggggaag	ctgaggcctg	agcacatgac	ttgccttagg	33420
tcacatagct	ggtgagttca	ggatccccca	gagataccag	ggccagcact	cgatccccac	33480
ccagccctga	accccaccat	gtgctgggat	tgtgctggga	gtgtccacac	gcctgggacc	33540
ccagggtctg	tgctctcatc	tcctttttcc	agatcatgag	aatgaggctc	aggggaagttt	33600
gaaaaaaacc	tatcccaagt	cacacagcaa	caggagcagg	atttgaaccc	agaaaagggg	33660
accgcacact	ctgttctgct	agagtagtta	gctgtcctgg	gtgatatggc	aggtgacagg	33720
ggcaactgtg	cttaacaaa	gaacccccat	ccccctgcc	aagttgggag	actagaagggt	33780
caggggcaga	agctctgaag	ggccagggtg	agtggctgac	acctcta	ccagcacttt	33840
gtgaggccaa	ggcgggcaga	tgatttgagc	ccaggagtcc	aagatcagcc	tgggtaatgt	33900
agtgagacgc	catctctaca	aaaaaatttt	ttaaaaatta	gctgggcatg	gtggttcatg	33960
cctgtagtcc	aagctacttg	ggaggctcag	gtgggaggat	tgcttgagcc	caggaggttg	34020
aggttgtggt	gagctgtgat	catgccactg	cactccagcc	tgggcaatag	agtgagaccg	34080
tctccaaaaa	aaaaaaaaga	agaagaaaaa	gaagctctga	ggctccaagt	ccccaggcac	34140
cccttggtct	gagggcagac	aagggaggag	agggtcacct	gggcagccct	gacttttgct	34200
ccctggcaaa	gggaccttca	gtgaccttgg	ccctaggaga	gcctctgagc	acgtcagcca	34260
tgtcgaaccg	ctcaggaagg	gcagcaagaa	tttggcttct	gacctctgcc	tctcctactc	34320

gccatctgca	ctgggtgtgg	ttgtgccc	tttacagatg	aggaggctgg	ggcatcgacc	34380
agctgaatgc	cttgtcccag	gtactgcgta	ggcagagctg	gcagttgaac	cccgtgtcct	34440
ggttgtcgct	gggggtgggc	tgcaccctga	cttgtgaggc	cagtagcaag	gtttgcacgt	34500
gacttcgtga	ccgtcaccca	gctctgcagc	acatcccgtg	accagctca	tccaggccgc	34560
atgcaaacct	gttgccaggc	gagaaaccag	tcaccgcaca	gctgtggttg	cctgaaatga	34620
ttaagctcat	taatcacccc	ggagtgagga	cagactcaga	tgaaaaccag	caaaagccct	34680
ggaaactcat	gtgaccctgc	caatgagggc	ggccatgtgc	attgcagcct	ggccgtcact	34740
cctcggtacg	tgttttggac	ttaaaccgtc	cggatgttta	ctgagtgtct	gattaataac	34800
atggaaggcc	tgttctcatt	gctgtgggag	tgaaggatgc	acagccaggc	ctgacatgat	34860
gagaacaaga	acctggagtc	togctgcctg	ggtggtaatc	ctggccctgc	cacttagcaa	34920
ctgtgtgact	gtagccaggc	cacttaattt	tgctagatcc	tgccctgcgt	tcagtggatc	34980
ttgctggttt	tccaaggtgg	ccaaacactt	taaggcattc	atgtggtcgc	taggctgcag	35040
ggttgaacct	tggtcacccc	cgcagggcgc	cgtgtgtctc	gtggccctggc	tgtgcctttg	35100
ctgacaccgt	gcccgtgtgt	gttcatgcag	gtcaggagcg	ggtcgtgatt	gccgacgac	35160
tcccgacccc	gttcgggtctg	acgcagtaca	gcgattatat	ctactggaca	gactggaatc	35220
tgcacagcat	tgagcggggc	gacaagacta	gcggccggaa	ccgcaccctc	atccagggcc	35280
acctggactt	cgtgatggac	atcctgggtg	tccactcctc	ccgccaggat	ggcctcaatg	35340
actgtatgca	caacaacggg	cagtgtgggc	agctgtgect	tgccatcccc	ggcggccacc	35400
gctgcggctg	cgcctcacac	tacaccctgg	accccagcag	ccgcaactgc	agccgtaagt	35460
gcctcatggt	ccccgcaccc	tactccctc	gttagatcag	gctggttctg	ggagctgacg	35520
ctgaaaggag	cttctcatct	ggggttccctg	ggtgtacata	gatggttggg	taggttgtgc	35580
actgcacaag	ctgcatgatg	ctacctgggg	gtccagggtcc	aggctggatg	gacttgttgc	35640
ttcatcagga	catagataaa	tggccaaaac	tcttcagctg	gaaggctcctg	ggcaggatct	35700
ttgggtgtga	aaaccagtca	caggggaagg	gtgcttgcctc	atactgccag	cacagtgtctg	35760
agtgtcttcc	atagcgtctg	tttactcctc	aagcctggag	ggtggggagt	agcatggtcc	35820
catttcacgt	acaaggaacc	cgatgcacag	agaggtgtgg	caaccctacc	aaggccatac	35880
aactgggggtg	ggttgagccg	gggttgactg	tggcaggctg	gctcaagagt	ccctgtcctc	35940
gaacccttgc	caggcagcct	ggcatcagct	cggggaattt	ttgccctgac	ccttgggaagc	36000
aagtgggcct	ctttgttctc	atgtcagtga	tgagaagagt	gactttccta	tggccctctc	36060
ggagtacagg	tgtttcctgt	tggcgggctc	ttcccccatg	acatcagcag	cgagctgggt	36120
atgattccct	acgcagaact	tgatagttta	taaagctctt	tgtcatccag	gccccgttgg	36180
agtctcacgc	agacctgggtc	gcaggcgggg	ctggctcttgc	ctgtcccagc	tgcatggatg	36240
gggaacttga	ggcttgcaaa	ggttaagggg	ctgttcgagg	cccacgctgg	caggagatgg	36300
gcctggggcca	gagtctggga	cttcccatgc	ctgggctgtc	tttggctcctg	ttgtccacca	36360
tccctccctg	gggccatgac	cttagagagc	caaatggagg	tgcaggtaac	ccacggcaag	36420
gaggggttgc	catgactcag	agtccccgtc	ctgtggccgg	cagtacctgg	tgcaacgact	36480
tggatttcag	accagccact	gtagcccgtc	gacggtgcgc	tcgaagtgcc	acagcttctg	36540
aagccaggca	ggactcaggc	caggagactc	tgttagctgt	tgagagggag	aggccaacgg	36600
atgttctggt	tctgctagag	agctggttct	tccggtcctg	gtaccagtgc	actgagagga	36660
ggcccagctt	gattctgggg	ctgccttgtg	gtggcatgtg	ctgctcactg	acaccctcga	36720
ggagtgtctt	ctctcgggct	tgttgactgt	gcccggtttt	ccgcagttca	ctggtgcaca	36780
cataggcaca	tagcaaaccg	cacacacagt	cgtgggtatg	agtttacta	cattccacca	36840
ccagtgttca	ctaccattac	ctgccttccg	tcttaagtgt	tcatcattta	aaaataaatt	36900
tattgggctg	gacgcggtgg	ctcatgactg	ttatcccagc	actttgggag	gctgaggcgg	36960
gcagatcacc	tgaggtcagg	agttcaagac	cagcctggcc	aatatggtga	aactccatct	37020
ctactaaaaa	tacaaaatta	gctgggcatg	gtggggcatg	cctataatcc	cagctactca	37080
ggaggctgag	gcaggagaat	ggcgtgaacc	cgagaggcag	agcttacagt	gagcccagat	37140
agcaccactg	cagtccagcg	tgggcaacag	tgcgagactc	catctcaaaa	aaaaaataaa	37200
taaataaaaag	aaaaataaat	ttatgatcta	tttcaaaaat	aacacatgta	ctttgaaaca	37260
gcagagacac	atatgacacg	gagaatgaaa	ttccccatag	cgcaccccca	agagacagcc	37320
ctgggtcccc	cgtctttccc	gtggacctcc	agcggggcag	atgctgagcc	gcctgttgtc	37380

gagtggcatg	ctatcccgtc	ctccagctcc	tctgtggctt	acagacaccc	acctgcagcc	37440
ctgtctttgc	ctcctctagc	gcccaccacc	ttcttgtctg	tcagccagaa	atctgccatc	37500
agtcggatga	tcccggacga	ccagcacagc	ccggatctca	tcctgcccct	gcatggactg	37560
aggaacgtca	aagccatcga	ctatgaccca	ctggacaagt	tcctctactg	gggtggatggg	37620
cgcagaaaca	tcaagcgagc	caaggacgac	gggacccagg	caggtgccct	gtgggaaggg	37680
tgcggggtgt	gcttcccag	gcgtccctct	tgtgtgttct	caggtgctg	cccctgtcct	37740
tagcagaggg	aggaaacaga	ggatggctct	gggtgaatga	tgacttgggc	ttcgattatg	37800
tagtcacagg	gtatgacct	gagatgcgtg	gaaccccgag	actgtgatta	tatgtagaaa	37860
ctgggtttcc	ccgttggtta	agtagtcatg	gtggggtcag	acccacagg	acttttgtct	37920
tttcaagaaa	gaaaatggtc	gtgtgtcatg	caggggtagt	tggtactggg	taatccaggt	37980
ttatccttta	ttttgtggga	actgtacagt	catttctgct	acaatgctgt	atatgtctct	38040
ctgaaagaca	cctatgcaaa	atcgcacagt	aaaaatgaca	caactcatag	ggaaagcggg	38100
gccagggcac	agccctcaaa	atctccatca	atgacatgta	agaaaagaga	ggaacctggg	38160
aaatagcaaa	gtgccttttg	cacattaaat	ggtagctat	atcccacaat	actgtgcatt	38220
cgtaaacgtt	aatgctgcaa	taaatacggc	acttcacctt	gggaagatct	ggagttggct	38280
tatgagtgtg	gaaggggtga	gcgcagtagt	ttttgtgaaa	cactggaagg	aggattgtgg	38340
gaaatcaaat	ggaaagtctt	caccccaggc	gtggagaaga	gtgggtcatg	gccccagcag	38400
tgagcccagg	gaggtcagag	acggaggtgt	gtgtgtgggt	gtgacctgc	gcagttccct	38460
gcgggtgta	gttttttgca	ttcgcttaat	gtttctcgtg	gaggaaattg	tgcatgagca	38520
aatgtgaaac	cgtgctgtgc	tcaaattgtc	ctaatacatc	attgcattgg	aacagattgg	38580
cttntttttt	tttttttttt	tttttttttt	tttgaaatgg	agtctcactc	tgccaccagc	38640
ctggagtga	gtggcatgat	cttggtcac	tgcaaccttt	gcctcctatg	ttcaagtgat	38700
tttctgcct	cagcctcctg	agtaactggg	attacagggc	atgagccacc	gcggccggcc	38760
agatttgcat	ttttgaaaca	actgctaggc	tgggcgcggt	ggctcacacc	tgtaatccca	38820
gcactgtggg	aggccgaggc	aggtggatca	cctgaggtca	ggggttcgag	accagcctgg	38880
ccaacatggg	gaaaccccg	ctctactgaa	tatacaaaaa	tcagctgggt	gtgggtggcg	38940
gtgcctgtaa	tcccagctac	tcaggaggct	gaggcaggag	aattgcttga	accaggagg	39000
cagaggttgc	ggtgagccga	gatcacacca	ttgcactcca	gcctgggcaa	caagagcaaa	39060
actccatctc	aaaaaataaa	aaatagaaaa	acaagtgtct	tagcggaagt	gagcactttg	39120
cggagtcagg	cttgtgtggc	ctgttccaca	aatgatgtgc	tcacggtggc	ctcaggccca	39180
cctggagtct	gcagcatggg	gcacaacagg	ttcatttagt	tagaattcca	ggacaggcct	39240
ggctcctaag	cagccttctt	ttacaaaaac	tgcaagagccc	gcctgtatcg	tagcactttg	39300
ggaggccgaa	gtgggtggat	cacgaggtca	ggagttcaag	accagcctgg	ccaacatggg	39360
gaaaccccat	ctctactaaa	tatacgaaaa	ttagctgggt	gtggtggcac	gcgcctgtag	39420
tcccagctac	tcgggaggct	gaggcagaat	tgcttgaacc	tgggaggtgg	aggttgcagg	39480
gatctgagac	catgtcattg	cactccagcc	tgggcaacag	agcgagacgc	catctcaaaa	39540
aaaaaaaaacc	tacagagcca	cacggcctct	ttctccaccg	agtgttggtg	tgggagcttg	39600
tgttattgtg	gtgaaatctt	ggtactttct	tgaggcagag	agaggctgag	cgcctggaga	39660
gactttcaca	tgggtcgcca	tgtccgccgt	cggtttcgct	gttgtgctcc	ccatctgaag	39720
gctgggtgcc	tccagacagg	ctggacgccc	ctttccacca	gatccttctt	cccgcagcag	39780
tttctagtta	cgttgtactg	tgaggtctgt	gtccttgggt	gatggcaaaa	gtcagccgaa	39840
ttgaaattca	gagccatgcc	tggctccctg	gagcttctct	cctgggcagc	tgtgatcatt	39900
gcctctgctg	tgggtgtggg	ggtggaaatg	gattcctttc	atcttgcctg	ctacaggtga	39960
ctgtcacgtg	gagtcctttg	gagagagggg	cgtgttaatt	gatggatgtg	gctcccatgc	40020
tgagaaagct	cctgggcgta	cattgcctta	gagtttcatt	ggagctgcgt	tcttttatgg	40080
tgtctgctag	gcagaagtga	tgaagacttg	gaagaaaacc	cagaaggttt	tccacttaat	40140
ttggaaaatg	tgtttttccc	ctcctgtgtc	ttttgctaag	gtccagcctc	ctgcagcctc	40200
cccgtctgtg	ggactctggc	tttgattctt	tattaggagt	ccccctgctc	ccccaaaaga	40260
tggtgtctaa	attatcatcc	aattggccga	ggttttgttt	tctattaatt	gtttttatatt	40320
tttattgtgg	taaatttata	taacataaaa	tttgccattt	taattgtttt	gttattgttg	40380
tttttgagac	agggctctac	cccagtcccc	aggctggagt	gcagtgggtg	gatcatggct	40440

cactgcagcc	tcagcctcca	gggctccagt	gacccctcca	cctcagcctc	tctagtagcc	40500
gggactacag	gcatacacta	ccacatctgg	ctgatttttt	gtattttttt	tttattgtag	40560
agacccgcta	tggtgccag	gctggtctca	actcctggac	tcaagccatc	ctcccacctc	40620
accctcccaa	agtgcctggg	ttacaggcat	gagccacaac	accagcccat	tttaattttt	40680
tttttttttt	ttgagatgga	gtctcactct	atcgcccagg	ctggagtgc	gtggcgtggt	40740
atcaactcac	tgcaacctct	gcctcccagg	ttcaagcgac	tctcctgcct	cagcctcctc	40800
ccgagtagct	gggattacag	gtgcccacat	ctatgcctgg	ctaatttttg	tatttttttag	40860
cagagacggg	gtttcaccat	gttgcccagg	ctggctctga	actcctaacc	tggtgatccg	40920
cccgctcgg	cctcccaaaa	tgctgagatt	acagggtgta	gccaccgtgc	ccggcctttt	40980
tttgtttttg	agacagggtc	ttgccctgtc	accagactg	gagtgcattg	gtgggctctt	41040
ggctcactgc	agcctccgcc	tcccaggctc	aagttgtgca	cctccacacc	tggctaactg	41100
tattttatgt	agagacagat	ttcaccatgt	tgcccaggct	gggcttgaaa	tggactcaag	41160
cagtccaccc	acctcagcct	cccaaagtgc	tgagattaca	ggcgcgagcc	accgcaccca	41220
gcccatttta	cctattctgc	agttgacagt	tcagtggcat	tcagtcatgt	cacgaggtaa	41280
ccatcactgc	cattcatctc	cagactactt	cacctctctg	gcagatgtcc	gaaactgtcc	41340
gcattgaaca	cactcctcat	ctccctctga	cagccaccat	tctactttgt	atctctctct	41400
gccttctcta	ggtacctcat	gtaagtggaa	ttataccaat	atttgccctt	gtgtgactgg	41460
cttctttcat	gtgacatggt	gtcctcaagg	ttcatctgtg	ttatagcctg	tgtcagaatt	41520
tccttcctta	aagcctgaat	aataaccctg	tgtaaaggct	gggcgcgggtg	gtccacaccc	41580
tctaatacca	gcattttggg	agtccgaggt	gggcagatca	cttgagggtca	ggagtttgag	41640
accagcctgg	ccaacatagt	gaaaccctgg	ctctactaaa	agtacaaaat	tagctgggtg	41700
tggtggcgcg	cacctgtaat	cccagttact	caggaggctg	aggcaggaga	atcgcttgta	41760
cccgggaggc	agaggttgca	atgaaccaag	attgtgcctc	tgcagtccag	cctgggtaac	41820
agagtgcagc	ttcctgtctc	aaaaaaaaaa	aaaatcatcg	gatggatgga	cggaccactt	41880
cttggtattt	atccatccac	gggtgctagg	tttcttccac	ctttgggtgt	cgtgaataag	41940
gccactatga	acatttcctt	ccgtggtgaa	ggttttgtac	tagtgaggaa	aaggcgtggt	42000
tgtggtggtg	cataggattc	tggttaagaaa	gtttgcacta	accataagta	tttgtactac	42060
attaaaatga	aagctcaggg	gcccggcgcg	gtggctcacg	cctgtaatcc	cagcactttg	42120
ggaggccagg	gcgggcggat	catgagggtca	ggagatcaag	accatcctgg	ccaacatggt	42180
gaaaccccg	ctctactaaa	aataccaaaa	aactagccag	gtgtgggtggc	gggcacctgt	42240
agtcccagct	acttgggagg	ctgaggcagg	agaatggcgt	gaacccggga	ggcggagctt	42300
gcggtgagcc	gagatcgctt	cactgcactc	gagcctgggc	aacagagcaa	gactccgtct	42360
cacgcaaaac	tctgtctcac	gcaagactcc	gtctcaaaaa	aaaaaagagt	tcagggttta	42420
tgaaactggc	cagccgcgta	aagtttgctg	tggtgttttt	gtgcccggga	ggagtgtggc	42480
cagggtgtca	cgtcacacag	tacacgtttc	tcagatgggtg	gttctccaga	ctgctgtccc	42540
aaagtctgtt	tttgcatctg	gttcccacag	accacccctc	cacgggtgagc	ctgatttttg	42600
ccagggtagc	tggaatcttg	cttgtctttc	agcccggcag	ctgtaccagt	ccagggtcca	42660
cagctagtgg	cttttaggaa	ggaatttggt	cagttggctt	tgacacatgg	ccccctaggg	42720
tccacagctc	tgtagtgatg	tggatgttgt	tatctacaaa	gacacatgat	ccttcgtgtc	42780
cagatgaaag	tgatgatgtc	tttgacagctg	cccagcaagg	ctgtgtgtgt	gtgtgtgtgt	42840
gtgtgtgtgt	gtgtgtgtgtg	tgtgtgtgtg	gtgtgtgtgt	gtgtatgggg	gagggaggca	42900
ccctttccat	ctgggggtgt	gtgtgtgtgtg	ggtgtgtgtg	tgtgtgtgcg	cgtgtgtgtg	42960
gtgtgtgtgtg	tgtgtgtgtg	tatgggggag	gcaccctttc	catctgggtc	caagagactg	43020
ggcctgggga	agacgcttct	ttttatctac	ttagagactt	tgttttattt	gtattttttt	43080
gagacaggg	ctcactctgt	caccaggtct	ggggtatggt	gatatgagca	tagctcactg	43140
cagcctcggc	ctcccaggct	gaagcgatcc	tcccacctca	gccttctgaa	tagctgggac	43200
tgtaggcgtg	cgtcaccata	ctgagctatt	gttttttttg	tttggttggt	tttaattttt	43260
ttgatacaga	tggagtcttg	ctatgttgcc	cagactagtc	tcaaactcct	gaactcaagt	43320
gattctccca	cctcagtttc	ccgacattct	gggatcacag	gtgtgagcca	ctgctgtctc	43380
cctgttttat	taactgctga	aagacctaga	taaagaaagt	ctgaaaagac	ttactatcag	43440
agcaccatcc	taagatgatt	ccctctgact	caatggagag	ggaggggagc	ttttccttca	43500

ggcctgggtg	gcaggagccc	aggtgctcca	ggccccat	ggccccag	aaatcactcg	43560
ggaacttgga	tgcagctgtc	tttcagggtg	acccaaagga	accagatccc	cgcaggcagt	43620
aggcttcttg	gctgtcctct	cctcctacgt	cagctcagta	agagcccttc	gaagggatgc	43680
tgtgtcggag	gccccaaaag	cccaggctca	tccttgagat	gcacaggggtg	ggctgggctt	43740
aggcagcgct	cgagcatctc	ctggacgggtg	accccagaga	gtgtggagac	ggagagtccct	43800
tgagagtcac	tgagagacgt	ggctgcccctg	ccttccccaa	aggggctctg	agtcattccc	43860
cacactcacc	tgccccctacc	caccctcacc	tggccccccag	cctcacctac	ccccacatct	43920
gtaccgatcc	ctttaccgcg	accttccccta	cccaccctca	cctccccctgt	accttcacct	43980
ccccactca	cccgcccctg	caccctcacc	tgccccccac	cttcacctaa	ccccaccct	44040
cacctgccct	cccctcacct	ggcctccttc	cggtggggaa	gggggtgtga	ggggcgggccc	44100
ccaaactgtc	tgtcctgggtg	ccctgcagag	aaaacagtac	gtgaggggccg	cagtccaaaa	44160
gcttgagtcc	tggaagggtg	aggagacagg	gatgtgttgg	gaagggcccc	atgggtcttgg	44220
atcccttctc	gactgtcaat	ggggccttca	tgggagcgcc	agtctagtga	tgacacagctg	44280
gggtgcccggc	gggtgggtga	ggaggccctaa	agtcaggaggc	ggcaagagct	cttcacagagg	44340
ctgttgctct	aatcgctctg	gcatactcag	gcgggcacgt	agttaggagc	tgattggaga	44400
ggagagaccc	ccacaccaat	actgggattt	gactttcagg	ctaaacttga	gaagtgtggc	44460
ctctgctgtc	ctgccagagc	tctccagcca	gtgccagggg	ctctccagcc	agtggccggg	44520
gggtctccacc	agtggccggg	gggtctccgcc	agtggccagg	gtctccgcca	gtgccagggg	44580
gtctccgcca	gtgctcagga	gtcttggttt	ctttgtctta	cagccctttg	ttttgacctc	44640
tctgagccaa	ggccaaaacc	cagacaggca	gccccacgac	ctcagcatcg	acatctacag	44700
ccggacactg	ttctggacgt	gcgaggccac	caataccatc	aacgtccaca	ggctgagcgg	44760
ggaagccatg	gggggtgggtg	tgcgtgggga	ccgcgacaag	cccaggggcca	tcgtcgtcaa	44820
cgcgaggcga	gggtaggagg	ccaacgggtg	gggtgggggtg	ctgcccgtcc	aggcgtgccc	44880
gccgtgtctt	ctgccgaatg	ccagcctctc	acaggctggg	gagactttcc	accctgggga	44940
tccaatgggt	ggctttccag	gggtcccaaaa	gcaaacacag	gctctttcac	agccccctcca	45000
ggaaagcaga	aagccccaag	ggctggaagg	gaagggggag	ctctgctgag	aggttacaag	45060
gcagcgctgg	ccgacgggag	ttgcagttga	taggttttgt	atcatccttg	ttaaacttga	45120
accctgtgca	gaaatccctt	ccacggcatg	ggggctgcct	gttgactcgc	tcctgttcca	45180
ccacagggag	ctcctgggct	tcttctctcc	agaggccccc	gacgtcccca	cctgttggctc	45240
gtcagagctt	ctggttggtg	ggaaggcacc	caggaccttg	aggtctccag	agagaaaagc	45300
cagggaaaga	gggagaccga	aacccatgtg	acatgaaact	caggctccaa	actgagcacg	45360
ggaacgtttg	gggacaggag	cgcgatggcc	ttcctcagat	agctgggggg	ctggcatgaa	45420
gacgggagct	acagccagca	caggtcctgg	gccgggagcc	cagagattga	gccctgactc	45480
tgtcacttac	tggccacgtg	accttgggcg	gggtggcatag	cctcttggag	actcagtttc	45540
ctcattggta	ggagtgcagg	ccacagtggg	gcggcctctg	cagcacacgg	ggggctcggt	45600
ggggcggaagc	ccggggtcta	taaggcggt	gtgcaggagc	cagccgagct	gggtctccaa	45660
cagccagggc	tccggggtcc	ttagcagctg	tggggggcct	gcacctgttt	cccatggctg	45720
ctgtcagaaa	ttaccagaag	ccaggtggct	gagagtaatg	gacacttggt	ctctcacagt	45780
tcctgagggc	tgaagcccg	gatcgagggtg	tgggcagggc	cctgcgccct	ctgaaggctc	45840
tgagggaacc	tttgggcttc	tgggtggctcc	aggcaccctt	tgacttgtgg	tcctgtcact	45900
ccagtctctc	tgtctggctg	cacatggcgt	ggcctcttct	gtaccattga	aggacacttc	45960
agttggattt	agggcctacc	ctcaccatt	gtggtcgtat	cttgatcctt	catgacattt	46020
gtaaagaccc	tgcttccaaa	taagctcaca	ttctgagggt	ctgggggtgag	cgggaatttg	46080
gagagcattg	ttcaactagt	atagaatgtg	acctgtcagc	ctcgggcagc	cctgagaggc	46140
aggggctttc	cacagcccag	ctgggtgccc	tgggctccgt	gctgtccgag	gagacgccat	46200
ccccacaccc	gtccttcacc	cgccaccctc	ccgcaggtag	ctgtacttca	ccaacatgca	46260
ggaccgggca	gccaagatcg	aacgcgcagc	cctggacggc	accgagcgcg	aggtcctctt	46320
caccaccggc	ctcatccgcc	ctgtggccct	gggtgggtgg	aacacactgg	gcaagctggt	46380
ctgggtggac	gcggacctga	agcgattga	gagctgtgac	ctgtcaggta	cgcgccccgg	46440
ggcctgccct	aaccgcagac	acccggcctt	cattgtcagt	aatggcagca	gctgccacat	46500
tgtccgagac	ctgccgtgag	cccagtgcgg	cgcagggggc	tttgtgtgta	gcgtgttttg	46560

tectcacact	gacagctgta	ggctgggggtt	ctgagtgage	cccacagggc	agaggcagaa	46620
aatgagtctc	agagaggggtg	agcgagctgc	ttggggcccc	acagcaggag	atggagcagg	46680
actgcagcct	agcctctgcc	cccagcacct	gcgcaagaag	ctgctctgct	ctggactgtg	46740
ttaggctgcg	agggctggag	agaaatgaga	gttgggtgctt	agagaggggg	cgcaggctcc	46800
catggctttt	cctcttatga	tgaggtagat	gggtgaagg	aggggccatg	cttgcagggg	46860
ccagtgaccg	aggcccgccg	ttggaactga	tggccttcat	cccagagcca	gcccagggtg	46920
gagcagggct	ttccgagggc	ttgtcttggg	tccgcttgc	tccagggact	ctgctgcagc	46980
tcccacccct	gtccaaagca	tggaaatccc	caggctccct	ggcagtcctg	tcaacctctg	47040
tcctcccaag	ctgagtgtgg	ggcaagtctt	ggaggtcagc	actgctcagg	ggggcccacg	47100
ggctgcttgc	aggggccaac	cgcctgaccc	tggaggacgc	caacatcgtg	cagcctctgg	47160
gcctgacct	ccttggcaag	catctctact	ggatcgaccg	ccagcagcag	atgatcgagc	47220
gtgtggagaa	gaccaccggg	gacaagcggg	ctcgcatcca	gggccgtgtc	gcccacctca	47280
ctggcatcca	tgcagtggag	gaagtacgac	tggaggagtt	ctgtacgtgg	gggctggcag	47340
tgggggtggc	aggggtggct	ctaaacccga	cccttggagg	aggctggagg	ccagtgcagg	47400
atcctgtgtg	gcctcagcca	ggcgggtggt	tctgccagat	gccaactgtt	gcccgtctgg	47460
gttcagcgac	atgtccgaat	gtcccagggc	ctctgagggt	gttttctttt	gcccagaaac	47520
aatcaccac	gaacagcgtt	ttaagacaac	accaactctt	tttttttttt	ttttttttga	47580
gtcaggatct	tgtctgtttg	cccaggctgg	ggtgccctgg	tgcaaacaca	gttcaactga	47640
gcctcgacct	ctgggcttaa	ttaagtgaac	accttgcctc	agcctcccag	gtagctggga	47700
ctacagggtg	gcaccaccac	acctggctaa	tttttttttt	tagagacggg	gtttccccat	47760
gttgcccagg	ctgggtctga	actcctgggc	acaagctatc	tgcctgctgt	ggcctcccaa	47820
agtgtctagga	ttataggtgt	gagccactgg	cctgacaaca	cccacggatt	gtctctcagt	47880
tctgttaagg	aaagtccagg	cacagcgtgg	ctcacctggg	ttctctgctc	agggctctac	47940
ggggccagaa	tcaaggtgtc	aggaacgctg	ggccctcagc	ggaggctctg	tggagaaatt	48000
agcttccttg	ctcactcagc	aggttagcag	tgtgggagtc	aggttctgtt	ttctctctgg	48060
ttattggctg	gggaccactc	tcagctccta	gaggccaccc	caggctcctg	ccccgtggcc	48120
ctctctgcct	cagcagtggt	ggctccctgc	gtcagtcctt	cccgcacctt	gagtctctct	48180
gatttgcttc	taaagggccc	tgtgattcgg	ctcagccacc	tttagattag	gttagcctcc	48240
cctttgatag	actccaagtc	ggctgattaa	taaccttact	cacatctgca	gaatcccttc	48300
tgccacataa	ggatcatgac	ccgtgctggg	gactgggggtg	ggaaattacg	gggtcattta	48360
ggattctgcc	tgccactgcc	ttgtctgtgc	ccagggtctg	ggggaggggc	ctccacagct	48420
gggaccacag	tccttctctc	cctccatggt	aacctctga	ggattacttg	agaccagcct	48480
gggcaacatg	gtgagaaccc	atccctacaa	aaaatacaaa	caaaaaggga	ccaggctggg	48540
ccttggtggc	catgcctata	atcccagcac	tttgggagac	caagggtggc	tgatcacttg	48600
aggttgggag	ttcgagacca	gcctgcccc	catagtga	tcccgctctt	actaaaaata	48660
caaaaattag	ctgggtgtgg	tggcaggcgc	ctgtattccc	agctactggg	gaggctgagg	48720
tgggagaatt	acttgaacct	gggaggcgga	agttgcagtg	agccaaaatt	acgccactgc	48780
actccagcct	aggcaataga	gtgagactcc	gtctcaaaaa	aaaaaaagg	ccagggttgg	48840
tagtgacaaa	gagaccctat	ccccaaaaaa	ccgaacactg	aatccttgag	actgagtaag	48900
gacactgtga	aatttttctg	gggtggggcag	ggaacagagc	gtcttctgtc	atttcttcca	48960
cctgggtgtg	gtcagctctc	cctccaagct	gcctcctctt	cttctcattg	tccgggtgtt	49020
ggacacattt	ggttaactgg	atagaataac	gcgagttccc	agggacttgg	tccatttgc	49080
attttatttt	attttatttt	attttatttt	attttatttt	ttattttatt	attttatttt	49140
tgagatggag	tttcgttttt	gtcgcccagg	ctggagtga	gtggcgcgat	ctcggttcac	49200
tgaacctct	gcctcccagg	ttcaagtgat	tctcctacct	cagccttcca	agtaactggg	49260
attacaggca	cccaccacca	taccaggcta	atttttttgt	atttttagta	gagacgggtt	49320
ttcgccattt	tggccaggct	ggtcttcaac	tctagacctc	aggtgatcca	cgcacctcgg	49380
cctcccaaag	tgtctgggatt	acaggcatga	gccaccacgc	ctggcaccat	ttgctatttt	49440
aattcccatg	tgtatttagtg	tcccacggct	gctgtaacaa	atgaccacaa	actggatggc	49500
ttaaagcaac	agaaatggat	tcccccaatg	tgtctggagac	cagaagcctg	cgaccaaact	49560
gttggggagg	ctgtgcttcc	tctggggggt	ccaggggagga	tctatttgtt	ggcccttcca	49620

gtgctgtggg	tgccagcggt	ccacacttgt	ggatgcgcgc	cctcaacctc	tgccatctt	49680
catgtgtcca	tctccttgt	gtctgcgtct	ttacctcttc	ttcttgtctg	tgttgctct	49740
tataaggacg	tttgtcattg	ggtttagggc	ccacccaaat	catccgagat	gacctcgtct	49800
tgagatcctt	aacctgcaaa	gacctttttt	ccaaaaaaag	gttatgtctca	cagattctag	49860
gccttaagac	atgggtgtat	ctttctgggg	ggcactatcc	aacctcttat	acaatgaaag	49920
acgggaagag	ggccaggtgt	ggtagttcac	gcctgtaatc	tcagcacttt	aggaagctga	49980
agcgggagga	tcacttgagc	ccaggagttt	acaagtagct	aggcaacatg	atgagacccc	50040
atttctacaa	aaagtaaaaa	aaaaaaaaaa	aaaaaaaaag	ccaggtgtgg	tggctcacac	50100
ctgtaatccc	agcactttgg	gaggctgagg	caggcagatc	acgaggtcag	gagattgaga	50160
ccatcctggc	taacacgggt	aaaccccgtc	tctactaaaa	atacaaaaaa	ttatggccgg	50220
gcgcagtggc	tccgcctgt	aatcccagca	ctttggggagg	ccgaggtggg	tgaattacaa	50280
ggtcaagaga	tcgagaccat	cttggctaac	acggtgaaac	cccatcaaga	tcacaaggtc	50340
aagagatgga	gaccatcctg	gctaacacgg	tgaaccccg	tctctactaa	aaatacaaaa	50400
aattagccgg	gcatggtagc	gggcgcctgt	agtcccagct	gctcgggagg	ctgaggcagg	50460
agaatggcgt	gaacccggga	ggcggagctt	gcggtgagcc	gagatcgctc	catgccattg	50520
cactccagcc	tgggtgacag	agtgagactc	cgtctcaaaa	aaaaaaaaaa	aaagaaaatt	50580
agccaggcac	agtggcaggt	gcctattgtc	ccagctactt	gggaggctaa	ggcaggagaa	50640
tggcatgaac	ccgggaggtg	gagtttgag	tgagccgaga	tcatgccact	gcgctccagc	50700
ctgggcgata	gagcaagact	ctgtctcaaa	aaaaaaagcc	aggcatggtg	gtgcatgcct	50760
gtagtcccag	ctactcaaga	ggctgaggca	ggagggttgt	tcgaccacag	gagatcaagg	50820
ctacagttag	ccatgatcgc	accactgccc	tccagcctgg	gtgacagagt	gtgaccctgt	50880
ctcaaagtaa	gtaaatagga	ggagagacaa	gtgggcagtt	cagactgatg	gtatgggcac	50940
agtagagact	ggtgcagaca	ggctggcctg	tgatgtcaag	caacttctgt	aactgtttcc	51000
ggcatccatt	tgtgtgtcaa	tttccgtgtc	agttaggaaga	ctctgtaggc	tgccaaagagg	51060
aataagtggg	aggatcctcc	cagagaggcc	gggcctgcag	gagggccagt	tctcatgagt	51120
tcttatttgg	cccctacct	ccaggctgtg	gttctgaggt	gggagacaga	gcctgacctc	51180
tgtttgtctt	gttttgtctt	tgcagcagcc	cacccatgtg	cccgtgacaa	tgggtggctgc	51240
tcccacatct	gtattgcca	gggtgatggg	acaccacggt	gctcatgccc	agtcacacctc	51300
gtgctcctgc	agaacctgct	gacctgtgga	ggtaggtgtg	acctaggtgc	tcctttgggg	51360
tgatggacag	gtacctgatt	ctctgcctgc	taggctgctg	cctggcatcc	ttttaaaatc	51420
acagtccctg	tggcatccag	tttccaaagc	tgatttgtgtc	ttcctttgcc	ctcctttctt	51480
ttctactatg	tgcattcggt	gctatgaatt	ttcctctaag	tactgcgttt	cctgcatctc	51540
acaaattttg	ttacattttc	attttcaggt	agtttgaata	tttttact	tctcctgaga	51600
tgacatcttt	ggctcatgtg	ttatttagaa	gtgttgctta	gtttctaaag	agttggggct	51660
tttccagctg	tctctctgca	actgatttct	aatttaattc	tactgtagtc	tgagagctta	51720
ttttatatga	tttctgttat	tttaaagtgt	ttgggtgtgg	tgtttttgtt	gttattgttt	51780
ttgtgtcttt	ttgttttgtt	ttgcttcggt	tgttttgttt	ttgagacagt	gtcttgcctc	51840
gtcactcagg	ctggagtgc	atggcgcgat	ctcagctcac	cgcaacctct	gcctcccggg	51900
ttcaagtgat	cctcttgcc	cagcctcctg	agtagctggg	attacaggtg	cacgccacca	51960
taccagcta	atttttgtat	ttttagtaga	gacggggttt	caccatgttg	gtcaggctgg	52020
tctcgaactc	ctgacctcgt	gatccgcca	cctcggcctc	ccaaagtgc	gggattatag	52080
gcgtgagcca	ctgtgcctgg	ccattaggtg	tgttttatca	cccagcatca	tgcagtttat	52140
cttgggtgaat	gttctgtgta	ctcttgaaaa	gaatgtggat	tctgctgttg	ttgggtggag	52200
tgttccagaa	acatcaatta	gatccagttg	gttaatagt	ctcatcaggt	tgtctctatc	52260
cttccttcct	gactgcctgc	ttgagctgtc	agttattgac	aggggtgtgg	agtcctcaac	52320
tctaagtgtg	gatttgttta	tttctcctag	tagttctatc	ttttctctc	cttctaccct	52380
tgatcctctt	ctccccctag	ggcttcctgg	tgttggtggt	gggagagtgg	ggtagtgaag	52440
aacctggact	ttagggccaa	agaggccagg	gttcaaatac	tggctctgtc	acttcccagt	52500
tgagtgaccc	tggctggtgc	ctgaatctct	gtgagcctcc	acttctcct	ctgtgaaatt	52560
gagagcactt	acctggcagg	ctgtcatggg	catcaagtaa	cagggcactc	cacctggacc	52620
ctgacacgtg	atgcacagga	atgccagctg	ctatgccatg	ggtgtggcag	tagtaataaa	52680

gtgaccatct	gtatcctcac	cacagtgaag	cctgtccagg	gctttctctc	ctatgcccc	52740
atgcctccag	gtggccttgg	atcctgttgg	ttctgtgctc	tgctcagcga	cctttctccc	52800
gtgggagttc	ctgggggttc	agcttcatcc	tacagacagc	agcacacact	ggctgtgcac	52860
cctttttttt	tttttttttt	ttttttttga	gatggagtct	cgcttttttc	gcgcaggctg	52920
aagtgcagtg	gtgtgatctt	ggctcactgc	aacctctacc	tcctgggttc	aagtgatttt	52980
cctgcctcac	cctcccaagt	agctgggatt	acaggctccc	accaccacgc	ccggctaatt	53040
tttgtatttt	cagtagagat	gggtgtttcac	catgttggcc	aggatggtct	tgaactcctg	53100
acctcagggtg	atccgcccac	ctcagcctcc	caaagtgcag	ggattacagg	cgtgagccac	53160
cacacccgga	gtgccgggtg	tttttagcag	tttgtcttgt	tcctggagag	actggctcct	53220
gcccaggagc	tcggggagta	gggccgcggg	gtgctgcctc	acacctcgag	tttggccgta	53280
agcagagggg	acattttgtg	actgtcccc	tcctgagctt	cccagcagct	tttctccaag	53340
ttacagccca	aaagctcagg	tggatttgca	acccaacggt	gtctgtgcac	ctccactga	53400
tgcccgaact	gccctggcca	agaaacgggg	ccgtcagaac	gctgcactaa	ctgcagcctt	53460
gggcctccat	gccagaggcc	atgcccttcc	atccaccacc	ccctggcctg	ggccctggcc	53520
ctcctggctc	gggaactcca	ggccccctcc	tcacggatcg	agagacgtgt	atttaccgca	53580
cagggtgcttg	tcattctctt	gtggcctctt	ctccagggag	atcacagaag	gacagggcct	53640
cactgagggtc	tcggacatgg	accctttgat	agtggcagga	gccaggctgg	gcaagaggcg	53700
gccacagtca	cctcagcagt	gccatcacca	ccgccattca	gcccttccct	gagccggggcg	53760
cgccccctggc	tctggcccca	gtgtcccagt	tacagctcac	aggagcttgt	ggtgccccagc	53820
ggctgcttct	gattgagagt	cgaggctcga	ggctttggga	ggctgagagg	ctgctcgggtt	53880
tcacaactgc	tgaggggagac	ttgggctcca	tctcaggctc	gccccatgtc	gccctcaacc	53940
tcacagccacc	ggctcctccgt	gtcccccatg	gccaggcacg	gcttgcagac	atctgtcgtt	54000
ggctcctctc	agccgtcgtg	ggctgaccct	ggcacgtcct	cctgtggctg	agcccagtg	54060
ggacagctgc	ttccttttat	taccctagaa	ctctcgtctt	tgatcaggcc	ccctccccta	54120
tgccacacag	tcctgtctac	tcgggtgagc	ccagtagtca	tggggaaggc	ctgcgggttc	54180
caaacatcca	aaggcttgcg	tgcagcatga	cagcttgaaa	ccgatgtttt	ttaccttgat	54240
cagatttcag	cttggcgggg	gctttgctca	gctttcagtg	aggcctgggc	cgatttccca	54300
gcacccccctc	ctgaggccag	cctctgtttc	ctgtgatttt	ctgcacaaag	tgggagggag	54360
gagtcttagg	aaatgggggg	ccacctcgaa	acctaggcct	cctctggctt	ctctgtgcca	54420
gtgccccccac	gctttgtgtc	tgtgtcccca	gcccatggga	ctgtgttatt	ccctgagtgc	54480
tgccgcacgc	ccagcccgc	ctgaggacgt	ggagccccga	ggggcaggat	ggcctccatg	54540
gtcacacgta	ggaagtggcc	tcacccctcc	gatgatectc	tcccccctc	cctttcagcg	54600
ccttcccccg	gggtgtcatc	agccctcctg	cctgtgcttt	gtcccgctct	ctgcaggcgc	54660
atgggacgtg	ctgacagggtc	ctctgcgggg	ttcctgcctt	gctatgcgca	cgctggtcac	54720
cacagaggcc	tggcccttct	tctgtagcag	tcacacaccc	gcaacagggtg	tggctgctga	54780
ccacctgctt	tctgccccctc	tggctcctgag	gagggcgag	tgggcactca	ggcgtggctg	54840
agcagatgtg	tgttgccggg	aggaggaagg	actgctccag	tcagggtgta	atttcccacc	54900
cggagcattt	ctgctgtatt	tgggtgtagcg	cctgctgctt	aaagctctga	ttcccagttg	54960
gcaccttttc	ccttctgcat	tgaaaaacat	acggatgcat	gtcttcttgc	agtgaatgtg	55020
tattctccca	gcctctcttc	tgggttgggg	ctggagggtg	agcggcacac	aggagccgca	55080
gogatggagg	atgtgcgggt	gcagcacccc	gtacagcagg	gatgccaaac	ccgcgctgag	55140
tcctctcaa	cttctgcttt	gaagcccagt	cacgccattg	cctgggtttt	gctgggcggg	55200
gctgcatgtg	atgttctcct	ctgtccctcc	cccagagccg	cccacctgct	ccccggacca	55260
gtttgcatgt	gccacagggg	agatcgactg	tatccccggg	gcctggcgct	gtgacggctt	55320
tcocgagtgc	gatgaccaga	gcgacgagga	gggctgcccc	gtgtgctccg	ccgccagttt	55380
ccctgcgcg	cggggtcagt	gtgtggacct	gcgcctgcgc	tgcgacggcg	aggcagactg	55440
tcaggaccgc	tcagacgagg	tggactgtga	cggtagggcc	ctccccgtca	aggctctgcc	55500
aagaccttg	ccctgcccctc	cgggatacga	gcttggggct	gcctccggcc	tcacaggagt	55560
aggggctctg	aaaacctttg	cttgcaggga	gattgccaa	tctgtctttt	aggcccaaca	55620
aggaaaactc	tgcagttcca	cccatacctgt	cccaccaggt	agtgtggctt	gaaggcagac	55680
tgtgagggtc	tatctcacct	tcctgcatta	ggtcaggagt	ttcacagaaa	cctgaggcac	55740

attcaggggt	gggctgcaga	ggtccatggc	tcacaccctg	gaaaatccgc	ccccaaaaga	55800
cagtgtgtc	tccactgacc	agtctgtggg	atagtgttta	agcctgagtg	gtttctatca	55860
acatgtagaa	tcaggaggta	taaagagatt	tgtcaggca	tctggggccc	tctctgacca	55920
gcaggatctt	ccttttagatc	ttgacagtga	aacacatctc	ttctgtgccc	cctgtgagtt	55980
ttctttcatt	cattcattca	ttcattcatt	cattcattca	ttcgagacag	agtcttgctc	56040
tgtcaccag	gctggagtgc	cctgggtgtaa	tctcggtcca	ctgcaacctc	tgcctccagg	56100
gttcaatcga	ttctcctgcc	tcagcctccc	gagtagctgg	gatgacaggt	gcgcaccacc	56160
atgcctggct	aatttttgta	tttttagtag	agacagggtt	tcaccatgtt	ggccaggctg	56220
gtctcgaact	cctgacctca	ggtgatccgc	ccgcctcagc	ctcccaaagt	gctgggatta	56280
caggcatgag	ccaccgcgcc	cggcctgagt	tttcttttta	tgaaggacct	gcttgggttg	56340
ttgcctgcca	catgttgtca	gcaccatggg	cccaggactg	ctgaggagct	gttgatgccc	56400
tgcctctccc	agagccaccg	gctctgttag	ataattcaca	tgcagtctgg	ccactgtcct	56460
acgtcctcat	tcacaaagag	cagacatttc	gtagaagatg	agggcctggg	agtaacctcc	56520
ctgcatgttt	ttctataaag	gcatagtggg	taagtccctc	cagctcattg	accattggag	56580
aattttatgg	aggctgtaga	ctaggggctg	gtaaactaag	ggcccagggg	ccaaatccag	56640
cctgccacct	acttttgtaa	ataaagtttt	cttgggtgcac	agccatgccc	attcattcat	56700
ttgcacaatg	tctgtggctg	ctttcatgcc	aaaagcagga	gaactgagtg	gttatgctgg	56760
agacctacgg	ccttcaaagc	cccagacctc	acgtctggcc	cttgacagac	agagcttccc	56820
cagccctgct	gcgcatectg	gcccagcatg	tgtgtgtgtg	gtgatttcag	cttgaggag	56880
ccgtgggttag	gaattgtccc	tgtgttggtc	cattttgcat	tgtatgaag	gagcacctga	56940
ggccgggtag	attatgaagg	aaagaggtct	gtctggctca	tggttctgta	ggcagcacca	57000
gtatggcacc	cgcactctgt	cagcttctag	tgagggtctca	ggaagctttg	actcatggtg	57060
gaagtccaag	cgggagcagg	tgcatacacat	ggtgagagag	ggagcaacgg	agagagagag	57120
agagagagag	agagcgcctc	tccctcttgc	cctcaccttg	agaggagatg	ccaggctcct	57180
ttaagtaacc	agctcccatg	tgaactcaca	gtgagagccc	atttgctact	gcggagaggg	57240
caccaggcat	ctgtctccat	gacccaaaca	ctgcccacca	ggccctacct	ccaaccttgg	57300
ggtcatattt	tattctgttc	tatgtatgct	tatgtatgct	catgccatgc	catgccatgc	57360
tattcctatt	ctattatttg	agacagaatc	tgcctctgtt	gcccaggctg	gagtgcagtg	57420
gcatgatctt	ggctcactgc	aacctccacc	tcccagggtc	aagcgattct	cctgcctcag	57480
cctcccagat	agctgggatt	acaggcacac	accaccacac	ccgggtaatt	tttgtatttt	57540
caatagagat	ggggtttcac	catgttggcc	aggctgggtct	caaactcctg	gcctcaagtg	57600
atccacttac	ctcggcctcc	caaagtcca	tgattacaga	tgtgagtcac	tgcgccagtg	57660
gagggtcaca	tttccgttga	gatttggagg	ggcagacgtt	ggagccatct	gagccccctc	57720
gtcccgtctc	agcttctcct	cccgtgtgcc	ccgcgggtgt	ggtggcaggc	ccttacgccg	57780
gttctggctg	cacgtctgtg	tccagaagct	ttcttccctg	cttgggttacc	agaaaatcat	57840
cccatccatt	acaaggacag	ggtcccttta	tctcccatte	ccagggcagg	acaccggggg	57900
cagggcagg	ggggaaactga	gcaagttctc	tgggggcagg	cgtggctatg	gctccctctg	57960
ggtgggcgtc	tggggagggg	tggaggcagc	cgtcagcgcc	ctggcttget	cttccctcct	58020
ggccagagac	tgtggccttg	tgtgtctccc	gtgtgggctg	cctgcacctc	cagtgggttg	58080
tgtctccctc	cctccctccc	cctcaagctc	tgtgagcac	cactgccttc	cacagcccc	58140
actctcggga	ggcgaggctc	ctcgtggcca	ttcctgtcct	tggcaccac	ccccccacca	58200
acctggtaga	gccttggggc	gggtctgtta	ctccttgcat	ggcgtagacc	tccccacagt	58260
aggcacctga	cacatacctc	ctggggggca	ggcaggaggt	gcgttgaggt	ctcagccctg	58320
gcagtcctc	ccctgcgtgg	cataggcctc	gccacagggt	catcgagggt	gggtggagac	58380
tgtactagac	cactccccgc	tggctcctaga	aagggtccca	tctgtctgct	ctctgtttgg	58440
agtccagacc	ttggttgctg	tgccttgcac	ggtgggctgg	ggggcaccct	ccagcctctc	58500
tgagtgcag	gcctctcctt	gcagccatct	gcctgcccac	ccagttccgg	tgtgcgagcg	58560
gccagtgtgt	cctcatcaaa	cagcagtgcg	actccttccc	cgactgtatc	gacggctccg	58620
acgagctcat	gtgtgggtgag	ccagcttctg	gcacggggaa	ggggcgctcc	ggctgggttc	58680
ccccaggaac	gtggagttta	ggggaggaga	cgtgcctttc	cagcggggct	gggggctgtg	58740
tgggagactc	aggcggctgg	gaggctcctt	gcgggaggca	gggaagcctt	tcccagggca	58800

gcggccagga	ggacagactg	tgagctgtgg	gctcggcggc	tacagagtct	gcctcagtgg	58860
gcggggctga	tgggtgccag	gtgcctgcag	cacgcaccca	cccacgggac	cttgctgagc	58920
agcgtctgtc	aggcagcaag	attacccgag	ggctgcagtg	gtcctgttcc	ctggcagctt	58980
actgtctggc	tgaggaggag	tgatgttcac	atatgcacac	atgtcatgtg	cacacacatg	59040
tacatgacaa	catcccat	gctcctcaaa	tagcatgacc	tgtacagtca	cggatatagg	59100
gcctagggga	taggaggcca	agacagtcag	ggaagacttt	ccagaggcag	tggctcctga	59160
aaggctgtct	gattcaggca	ggaagggagc	tgagttcaga	taggaagtag	caatgagtca	59220
ttgtgtctgg	ggacatggcc	actccttcgc	tgacagggga	cctgggctga	gagctcctct	59280
cttatggctg	cagtcgggag	agaagtctgt	tggggggaga	agggggcttc	ctcaagggac	59340
tccctgtgcc	ctttggcacc	ttcgtgccag	gtcaggcttg	aggcctgaag	gcagtgggtg	59400
ggggccacaa	gggtcgcctc	ctctgctggg	caagttccca	gtctgacggg	cctgtgccgt	59460
ggggccagc	tgtggggcg	ctgttgatgc	gcagccaggc	ctcgccgcca	gagcccgac	59520
gcttccattc	cgctgacttc	atcgacgccc	tcaggatcgc	tgggcccggc	ctgtgggaga	59580
gtgaatgtgg	cttttgccaa	agttgagtct	ggagcctgga	aacttcccta	tgggcagcct	59640
tgatagtgga	gtggcccaag	gagcccaccc	agccgaccct	gccccctccg	tggctggtgg	59700
gcggcaccag	gggctgcctg	gctttgctcg	ttaccaaca	tcaccggggc	tggccagggc	59760
gcgctcactt	ctgccaccac	cgagggccct	gggcgaagga	gtgaatacca	ggctgccttg	59820
gcagggatgt	gttgagggtc	gtggggagtc	ggacagcggc	gggggtcaga	ggaggaggag	59880
ggtgcaccgt	gcaggctgaa	gggccacgtt	accctgaggt	tggccaggct	ccccaggcct	59940
agcctcccag	ctccccact	ttctccccac	cctccaccag	tggcaaagcc	agccccctca	60000
gggcgcacgg	tgtctgcccc	caaggagggc	ccattccgtt	gggggttaatg	ttggccacct	60060
ctttctgttt	gtctctggca	gaaatcacca	agccgccctc	agacgacagc	ccggcccaca	60120
gcagtgccat	cgggcccgtc	attggcatca	tcctctctct	cttcgtcatg	ggtggtgtct	60180
atthttgtgtg	ccagcgcgtg	gtgtgccagc	gctatgcggg	ggccaacggg	cccttcccgc	60240
acgagtatgt	cagcgggacc	ccgcacgtgc	ccctcaattt	catagccccg	ggcggttccc	60300
agcatggccc	cttcacaggt	aaggagcctg	agatatggaa	tgatctggag	gaggcaggag	60360
agtagtctgg	gcagcttttg	ggagtggagc	agggatgtgc	taccccaggc	cctcttgcac	60420
atgtggcaga	cattgcta	cgatcacagc	attcagcctt	tccactgag	cctgtgcttg	60480
gcacagaat	ccttcaacac	agaggcctgc	atggctgtag	caaccacccc	tttggcactg	60540
taggtgtgga	gaaagctcct	tggacttgac	cttcataatc	tagtaggaca	tgtgctgtgt	60600
tgtccacaaa	tcctcatgta	ccctagaaat	gaatgtgggg	gcggctgggc	tctctccaga	60660
gctgaaggaa	tcactctgta	ccatacagca	gctttgtctt	gagtgcagct	gggatttgtg	60720
gctgagcagt	tacaattcct	acgtggccca	ggcaccagga	acgcaggctg	tgtttgtaga	60780
tggctgggca	gccgcaccgc	agagctgcac	catgctgggt	tgtatcacat	gggtgaccat	60840
ggtatgtcta	agaaggtgga	gtccctgtga	ggtctgcagg	tgccccaca	gctccaggcc	60900
accttgagga	ttgcctctgc	ctgccagccc	ctgagttccc	tctcccctgt	cctgtcccac	60960
tgtcacccca	agccggcctc	attgggagcc	tgttgatgg	cagggtatag	atgtaacctg	61020
attctctctg	gggagcgggg	ttatctggct	tctcaagagc	tcctaggagc	ccacagtggg	61080
ggcaccatca	cagtcgcagc	agccccaga	gaacgcggcc	ctgtctgttc	ctggcgtgct	61140
ctgtgctgcc	ccgcctgggt	tcctgcccc	agtcgcaggc	cccttgagg	aggtaccatg	61200
tgtctcccgt	ttcacagatg	agccccgggg	agctcactct	agtagtggcc	agagaggcct	61260
gcggctcagg	gagcggggca	catttccaac	aggacacacc	gccctggtct	gagtctcgtg	61320
ggtagtggga	gcagaggaga	gcgcctatg	tctgtggggc	ggcttggtg	agcctggaag	61380
ccacctgacc	tcctccgtcc	cttccctgcc	aggcatcgca	tgcgaaagt	ccatgatgag	61440
ctccgtgagc	ctgatggggg	gccggggcgg	ggtgcccctc	tacgaccgga	accacgtcac	61500
aggggcctcg	tcagcagct	cgtccagcac	gaaggccacg	ctgtaccgc	cggtgagggg	61560
cggggccggg	gaggggagg	gcgggatggg	gctgtgggccc	cctcccaccg	tcagtgtgg	61620
ccaccggagg	cttcccgggt	tcctgggggc	tgtgccaccg	cctctgaggc	atgcttgctt	61680
tcttcccttt	tcaaacctt	ctgcttccct	ctttaatgac	attgttgatt	gtggataatc	61740
tgaaaactac	acaaaaatat	aaagagccaa	aatctcacc	aatccacct	cctagagtgg	61800
ctgttgggct	ccgtcagcat	ccaggcggcc	gtctgtgttc	cgcacggccc	agcccatcga	61860

tagccgcctg	caccaggcct	gtctgccctc	tgtgagcctc	cccacagggg	tccctccaca	61920
aacaccctgt	tctccacccc	agggctggct	gcttccctgga	aaacagctgg	atggttttgt	61980
gcatgacaga	caaacacagg	gtgattttcg	tggctaaaat	actccctgga	gcttttgga	62040
gggtgagggg	ctggctccag	ctgagccacg	ccttgagtga	aatgactgtg	aggagaataa	62100
actgccgctg	ccctccagga	tcaactggggc	tggctgggga	gaacccccgt	ttctgggagc	62160
acagtcccag	gatgccaagg	cgagcttggg	gccgagatgt	gaactcctga	gtgtaaacag	62220
cgggggctga	cttgacatgc	tttgtatgct	tttcatattgt	tccctgcagct	gtatgccctt	62280
aagggtgagtc	cagccccctt	ctgcttccctc	tggggcctcg	ccagtggagcc	ccaccttgcct	62340
ggggctgggt	cctcctgccc	ttctgggtat	ccctcacatc	tggggctcttg	tcttcttgtt	62400
ttattttttct	tttttttttg	agacggagtt	tcaacttttgt	tgccagggt	tcagtgaat	62460
ggtgtgatct	ctaggctcac	cgcaacctct	gcctcccagg	ttcaagcagt	tctcctgcct	62520
cagcctccct	agtagctggg	attacaggca	tgtgccacca	cgcccagcta	attttgtatt	62580
tttagtagag	atggggtttc	tccatgttgg	tcaggctgat	cttgaactcc	ctacctcagg	62640
tgatccgccc	accttggcct	cccaaagtgc	tgggattaca	ggcgtgagcc	accgcacctg	62700
gcctttttct	tttcttttct	tttctttttt	ctgagacagg	gtctcgtctc	gtcaccagg	62760
ctggagtga	atgggtgtcat	catggctaac	tgcagcctct	accttctagg	ctcaagcaat	62820
cctcccatct	cagccccctaa	gtagctagga	ctgcacgcct	gcacccccat	gcccagctaa	62880
tattttacatt	ttttgtagag	atgaagtttc	actatattgc	ccaggctggg	ctccaactcc	62940
tggactcgag	cgatccctct	gcctcggcct	ccccagggtgc	tgggattaca	ggcgtgagcc	63000
accgtgcctg	gcctggggta	ttgtcttctt	atggcacctg	actgtgggtg	gacctgggaa	63060
ggaagtagca	gaagaggggt	cttcttgggt	tccctggacag	taactgagtg	ttctggaggc	63120
cccagggcct	ggctttgttt	agggacaaaag	ggaactggta	accagaagcc	gagagttaa	63180
acacccactg	cccttcttcc	ctgctcctgc	tgtgcgaacc	cagcttaacc	agccaggagt	63240
gctaggaacc	caagcagggc	ccccgagcac	acagcaggca	gctcacgaat	tctcttttcc	63300
tgttctccct	tgggagctgg	gaggatctta	atcaggcaat	aagagatggc	actgagcagc	63360
cagctaattt	tttaaatac	tttattgttt	aaccatatga	ctcaccact	taaaaagg	63420
tacagttcag	tgggttttag	tgtattcaca	gatgtgtgca	accctcacca	cagttaattt	63480
tagaacattt	tccctgcccct	aaaagaaact	ctgcatgaag	ccagctgttt	ttaaattagc	63540
aaagtatttt	tgcacccctt	aaatatatgt	tcatggtaca	aaattcaaaa	gatacagaag	63600
agtctgcagt	ccaaagagac	tccgccccca	tgcgcgaag	caggactccc	tgggaggcat	63660
ggcctcctgc	agtgtgtttc	ttctatgtcc	ccccaggggt	catctgtaca	tatgcaagca	63720
tacaagagcg	tggactttgt	tttccaagcc	agaagataat	tgtagattta	tgtgcagttg	63780
tgagaaagag	cacagaccca	tttatcctct	gcctgggttc	ccccagtgtc	gcctgccatc	63840
ttgcatgact	tccattccta	tcataagcaa	gacactgata	acgattcttt	caccttatct	63900
agattgacat	aagtgttttt	tgtttgttct	tgagacaaac	ttcctctgtc	accagtgagg	63960
agtgcagtg	cacaatcaca	gctcactgca	gcctcaaact	cctgggctca	agcgattctc	64020
ctgcctcagt	ccctcaagt	agctcagatg	gcagggtgtgc	accatcatgc	caggctaatt	64080
tttaaatatt	ttgtggagg	gaggcctcac	taaatttcc	gggctagtct	tgaactcctg	64140
agctaaagt	atccctcctgc	ctcagcctcc	caaagtggta	ggattacagg	catgagccac	64200
tgcgcctggg	ctgacatatg	tgttttcgta	agcccgaag	atagcatctg	aagagtcaac	64260
attgagcctt	gccttttgcct	gctaattgatg	tataaaagct	gctgttctga	gcatttcgga	64320
ggctcccagc	tgcggtgtgc	accctgccta	gagctctacc	gtaaccctac	tccgggagga	64380
ggtgctattg	ttttccctcat	tttgcaacaa	ggaggctgaa	gaactgagca	tgaaccactg	64440
gcctgggtcg	ttcgggttgg	aggcagtg	gccaggccat	ccaactcaca	accaccttct	64500
actctgcttc	ccccgcaccc	tgaagtttgt	tctgttttga	ggacacagcc	gtcacattct	64560
tgggtggctga	acagcactcc	ttgtcaggtg	tggctgggccc	cccactggag	ggcatcatgg	64620
tccctctctcc	tgtgcgggtt	gaaccttggc	tgtttcaacc	actcctgcca	agtggccctc	64680
tgaaagggac	agtcacatctt	ttctcagcag	agggccacac	tggcaaaacg	gtccctggca	64740
ccctttctct	ccacctgtct	aatatagagt	aaaaatggta	tcattgtaag	atcttcattt	64800
atattttatt	tatcatgaat	gatgtaagca	tcattttgtg	tgtttaagaa	cctttgggccc	64860
cagcgtgatg	gcttgcagct	gtaatctcag	cacttttagga	ggctgagatg	agcggatcac	64920

ttgaggccgg	gagtttgaga	ccagcctggc	caacatggag	aaaccccgtc	tctagtaaaa	64980
atttaaaaat	tagccgggta	tggtgatccc	agctacttgg	gagtctgaag	catgagaatt	65040
gcttgaacat	gggaggcgga	ggttgccagt	agccgagatc	gcgccattgc	actccagcct	65100
gggcgacaga	gcgagactct	gtctcacaaa	aaaaaaaaaa	aaagaaaaga	aaagaaatta	65160
tcaatctcct	cttttatggc	atatatatat	atatatatat	atatatatat	ttatttccct	65220
ttcttggtta	tgttcataaa	ggcctccctt	gctctgatca	taaaaaacia	cttattttca	65280
cactctctct	cttttttttt	tgagacagag	ttttgctcct	gttgcccagg	ctggagtgcg	65340
gtggcgcaat	ctcagctcac	tgtaacctcc	gcctcccggg	ttggagtgat	tctcctgcct	65400
taccttcccg	agtagctggg	attataggca	tgcaccacca	tgcttggtta	atthttgtact	65460
tttagtagag	acgggggttt	ctccatgttg	gtcaggctgg	tctcgaactc	gcgacctcag	65520
gtgatccacc	cacctcggcc	tcccaaagtg	ctgggattac	agacgtgagc	cacctatgcc	65580
agccacact	ctctttctta	acgtcctcct	cctttcgttt	tacgttcaca	tctttaattc	65640
ttctgggatg	taattagatt	tgatgagcaa	ggtgggcac	cagcttggtt	cttggctgat	65700
ggcttatggg	tggcgtgaat	tagtcggggg	ctatcaggag	gcagaaactc	tatgagaatt	65760
tgaacagaga	aagtcccgtc	tacaggctta	ttaccaggga	ctggaatagc	agaaattgaa	65820
cagtgaagtg	tacagagaac	tctaagaatg	caggaatagg	ccaggcatgg	tggtccacac	65880
ctgtcatccc	agcacttttg	gagaccaagg	cgggtggatc	acctgaggtc	aggagtccga	65940
gaccagcctg	gccaacatag	tgaaacccca	tctctactaa	aaatacaaaa	aaattagctg	66000
ggtgtggtgg	cgcatgcctg	taatcccagc	ttctcgggag	tctgaggctg	gagaatcact	66060
tgaacctggg	aggcagaggt	tgtagtgaag	cgagatcatg	ccattgtact	ccagcctggg	66120
caacaagagc	gagactcagt	caaaacaaca	acaacgcagg	aatagcagat	gagccgaggt	66180
ggggcctccc	cagcccccac	ccccaccccc	gcacctggg	ccgagatcca	gtcctctttg	66240
aatagggcct	gggctgtggt	cacgggacat	ctgagacatt	gccgaggcgc	tgactgggtg	66300
gatcttgcca	gaagtctgcc	cagtgcagat	ttgggcagaa	tctcaaactg	ccttgggatg	66360
taggagagaa	accaggcctg	gtcaagttca	tggaagagg	tggaacaga	ccccataggc	66420
tggggcttgg	gcagctgtag	gaagccctct	ctgctgcctc	cctgcctgct	ctctgctttg	66480
aagcatcttc	cccagtgcct	ccagtctcat	gccctctcaa	cgttgggggc	aaatcctgag	66540
gaatacccag	actggctctc	tgggccaag	aggacctct	ccagaaagag	cagggcccag	66600
tgccgcttcc	taaagggcag	gggaagggcc	tggccactcc	ccagaggcta	ctcaccagcc	66660
atcaggatag	ccccaggaag	caggccttct	cgagcccat	ttattacttt	atthttattat	66720
tttattttaat	tttaaattta	ttttttgaga	cagagtctca	ctctgttgcc	caggctggag	66780
tgcagtgggtg	cgatctcaac	ccactgcagc	ctctgcctcc	agggttcaag	ggattctccc	66840
acctcagcct	cccaagtagc	tgggattaca	ggtgcccgc	accacacccg	gctaattttc	66900
atatttttag	tagagacgag	gtttcaccat	gttgccagg	ctggtctcga	actcctgacc	66960
tcaagtgate	cgcccgctc	ggcctcccaa	agtgttaggt	caagcccat	ttaaagttga	67020
agaaactgag	gctgaggtaa	attccctccc	cagggatcct	gctgcagcca	gaaggtggta	67080
aaacaggact	tcacccgggt	ctgtctggcg	tgaaaggcag	tgttcttgta	ccaccctagg	67140
gggcctgaga	gaactgagtc	cctcgggcac	aactgacagt	tctgttccca	ttattccgca	67200
ggggctcgga	tctggtgtga	tgtttccag	gatggccttg	gagaccaca	taagccctac	67260
accttttggg	aagctgcag	ttgggttggg	gtgccgtcag	tggcacttgt	ggaaggtgca	67320
gacctgtgtg	ggtgtgtggg	cccagggcct	ctggctccct	cctccctttg	tagggctggt	67380
tgtgtgctgc	ctggacctgg	ggggcacgtt	cacgtggtga	atthttgtat	ttactatccc	67440
cgttttgggg	ctggtgccag	cacaggccct	tgtgaagggg	gtgcctttgt	ctggagtggg	67500
actgtggccc	ctccctcagc	gtggtgactt	ctgtgtcagg	gcttcagcag	ggacgcagag	67560
ccctgagtg	ttcggaacaa	gggcgtcatt	gcaggagtta	gactgtgtgt	gatggaggga	67620
ggaggggcag	gaggaaaggt	cagaaggaga	gttccctggg	aggtccctga	ggagcctggt	67680
gaggtgctaa	ctggtgtgga	ggacactcag	ggcctgtggg	gacatctcct	actgctgggg	67740
gccagccaca	aagggaactg	gccgaagtcc	tgtccccgcc	ttcacagccc	agcatctggt	67800
cacaaggcag	gtacttgga	gggcgcgggc	acctgggcca	aaagtgcctg	ggttcccttt	67860
gcctttcact	gagatgacct	tgggggcagg	tggctgctgc	ctccctcct	gtccccaggt	67920
tttgccaact	ggccagagga	aggggtcctg	ggaagcaggg	gggccagaag	ccctctctgc	67980

aaggaaagcc	cgaggggtgt	gggaggaagg	aaggaatgcc	caggctggcg	aggctctaag	68040
tcacctggc	ttggctctcc	tcagatcctg	aaccgcgcgc	cctccccggc	cacggacccc	68100
tcctgtaca	acatggacat	gttctactct	tcaaacattc	cggccactgc	gagaccgtac	68160
aggtaggaca	tcctctgcag	ccctccatgg	ccattgggtt	cccgccagcc	cgtgggtggag	68220
gggcctaata	cccatgccac	tgatgagggg	aggtattctg	ggtgctagt	ggcaggtgcc	68280
gggccagcc	ctgcctccct	ctgctctgcc	aaccacacta	ggctgcctcc	ccagacaagc	68340
tcagegggca	ctgcatgttg	ggttcagaaa	tcagcagaac	tccacgttct	gagctgctct	68400
tcaagttgct	cctatggggg	ttacttttaa	gctgggaaat	ggctgtggcg	tcgaggggcc	68460
gggggcttgg	gctccaaact	ctgactgtgt	gtttgagtc	ggctgtggaa	acctagccat	68520
tgagatgccc	cctcttgggt	gctctgtcct	cttaggatgg	gacaagtctg	tgaaggctgc	68580
tgcagcacc	accgtagacc	cctaactcgt	tgacgtcacc	aggatggtcc	gggctgctca	68640
cttgccacag	tggcctgttt	gagcccgga	agccaacggg	gctgctcagc	tggacaccag	68700
cccccgagc	tgcccatggt	ggggtcacag	gccccacctc	cctgggttggg	gaggggcaac	68760
tgagagtgtg	gagaggtggg	acccaggtgt	gctgggtctc	gcaggggctg	gatcagagcc	68820
tgggatgggc	aggggtgagc	tcctgacctt	taaccagtg	gtgtcaggca	acgtggccca	68880
cccgccagcc	gcaccaggcc	ccacccccgc	aggtgaagg	gtgggatagg	ctgggcctgg	68940
gccaggacac	ctctggacca	cgcattcctc	attgcttggg	tccttgagc	agcagggcct	69000
cccagagtgt	gtgcgcctg	ccacctagt	gccatttcca	cgaactccca	ggcctggctg	69060
gggagccgga	actgcagcct	ccatttccac	cccactccgg	gtcggggccac	ctccctgatg	69120
cctcagtatt	atatcaaact	gtcacagtct	gtcccacagc	cttacagacc	actgtctcca	69180
gaatggtcac	atccacactg	ggcagcccag	tctcgctagt	tcctcgctcc	acctcctgcc	69240
tttgctcatg	ccgctcctgc	tctggggcca	ccgcggacac	atcttcccc	cgcccgcctg	69300
ctgacctcac	agcagctggg	ccccaaagg	agtatcctgt	cctgctgcac	ttttctcaac	69360
accoggtgtt	ggctgcacct	tcccacccat	tgcaggcccc	tctgtgacag	gacgggggct	69420
cctaaacaca	ccacagttcc	gagtctgaac	tcacacagtg	ggatgcggcg	tttctgggcc	69480
acagttgggt	gcaggtagcc	tctgggagga	tgaggagtca	ggagccatct	tgcgagtcag	69540
gttgcttgaa	ctcaggatgg	aagtgttccg	ggcccattgg	ttgctgtatt	agcctgttct	69600
cacgtctcta	ataaagacat	acccaagact	gggtaattgt	aaaggaaaga	ggtttaacgg	69660
actcacagtt	ccacctgcct	ggggtggcct	cacaatcatg	gtagaagaca	aggaggagca	69720
agtcacatct	tacatggcct	cagggaaacag	acagcatgag	aaccaagcga	aaggggtttc	69780
cccttgtaaa	accatcaagt	ctagtgagat	ttattcacta	ccacgagaac	agtatggggg	69840
gaaccacccc	catgattcaa	tcattctcca	ctgggtccct	cccacagcac	gtgggaatta	69900
tgggagtaca	attcaagatg	agatttgggt	ggggacacag	ccaaacccta	tcggttgcca	69960
acatttacag	taacagtgtt	aggtgaacag	ttgtccagtc	tcctgttttg	tcggacactg	70020
tttctagcac	cttccaggca	gaatctcatg	tatccttcac	tttcgaaatg	ggtactattt	70080
catccccact	tttatcaatg	agaaactaaa	gtcgaagag	gtcaagtaag	ttcctggcca	70140
aggtcagcta	gcaggctcta	gaggcctcgt	tctccttaga	ggcagccttg	ccagggccca	70200
ggcttggcag	gctgcagggc	aggtgcgggc	atgcccattg	tagaggtggg	accattgagg	70260
ctcagagagg	gtaagtgatg	agccctggcg	acacagcggg	gtgggtccag	agtccggcct	70320
gcatcttctg	gagctggcca	gtggacaggc	ctttcccggt	cacagccccg	gggctgctgt	70380
gcccaccagg	goggatgtgc	ctaccgaatc	ccactcctct	gtgtgtgtcc	ctttcaggcc	70440
ctacatcatt	cgaggaatgg	cgcccccgac	gacgcctcgc	agcaccgacg	tgtgtgacag	70500
cgactacagc	gccagccgct	ggaaggccag	caagtactac	ctggatttga	actcggactc	70560
agacccctat	ccacccccac	ccacgcccc	cagccagtac	ctgtcggcgg	aggacagctg	70620
cccgccctcg	cccgccaccg	agaggagcta	cttccatctc	ttcccgcctc	ctccgtcccc	70680
ctgcacggac	tcactctgac	ctcggcgggg	ccactctggc	ttctctgtgc	ccctgtaa	70740
agtttttaaa	atgaacaaag	aaaaaaatat	attttatgat	ttaaaaata	aatataattg	70800
ggatttttaa	aacatgagaa	atgtgaactg	tgatgggggtg	ggcaggggctg	ggagaacttt	70860
gtacagtggg	gaaatattta	taaactta	tttgtaaaac	agaactgcca	ttcttttgtg	70920
ccctgtgtgc	atgtgagttg	tgtgtccccg	tggagggaat	gccgaccccc	ggaccaccat	70980
gagagtctct	ctgcaccccg	gcgtccctct	gtccggctcc	tgcaggggaag	ggctggggcc	71040

ttgggcagag	gtggatatct	cccctgggat	gcateccctga	gctgcaggcc	gggccggcctt	71100
tatgtgcgtg	tggcctgtgc	cgtcagaaaag	ggccctgggc	ttcatcacgc	tggtgctggt	71160
cgtcttcttc	agattcttag	tctttttttt	tttttttttt	ttttgagacg	gagtctttct	71220
ctgtcatcca	ggctggagtg	cagtgggtaca	atctcagctc	actgcaagct	ccgactccca	71280
ggttcaagtg	agtctcctgc	ctcagcctcc	cgagtagctg	ggactacagg	tgcgcgccac	71340
cacacccgcc	cagctaattt	ttgtattttt	agtagagatg	gggtttcacc	atgttggcca	71400
ggatgatctc	gatctcttga	cctcgtgata	cgcacacctc	ggcctcccaa	agtgtgggga	71460
ttataggcat	gagccactgt	accagctga	ctcttagtca	cttttaagaa	ggggactgtg	71520
ccttcatttt	tactgggcc	ctgcagaata	tatgcctggg	ctctgggctc	ttctgaacct	71580
gtgttggtct	ccatctgacc	tctctgtgcc	agcccaaggc	tgctgctctt	cctgagggca	71640
aggagcccca	tgactgcgtg	ttgactcgct	ggatggggct	gctgagccca	ctctgccaca	71700
ccacgtgccc	ctggcaggga	gggaatccct	gggtcctcac	aggaacagtc	agcaagccac	71760
acctgacgcc	tgctgtgggc	ccatccctgc	ggtgctggag	aagacagaca	aggcctgggtc	71820
actgctctg	cagggtcccc	agtccgtgga	aggagacagt	aatctaggca	ttttcgggtg	71880
ggaagctgag	ctgttctcgt	gtcctgaagg	ccaggcggga	acagccgtct	tcagagggaa	71940
gggagaaaat	gcacatcgca	tcagtggaga	agggcctgac	ttccctcagc	atggtggagg	72000
gaggtcagaa	aacagtcaag	cttgagtatt	ctatagtgtc	acctaaata		72049

<210> 10
 <211> 8705
 <212> DNA
 <213> Homo sapiens

<400> 10						
ggactcaggg	gcagcagggga	ggtacaccca	tggttagtg	gcggaccata	gggggtaatg	60
agaggggtgaa	tcgatggaac	ctgggggaca	caatcgaagt	ggttccagag	tcgggctgta	120
ctaattaaag	agacggggca	gtggacaggc	atcttcagtt	gactgcccag	ggagtgttct	180
gccccacagg	gaggatatgc	gtacagaatc	atactcgatc	agcatgagtc	caattcagac	240
cgtacatcag	tggagatatg	ggtccccga	tgactccgtg	gaacactgat	gtttgtgaca	300
ggggagtaca	gcaccagcca	tcagcaggcc	agtaaatcat	accggcctgc	gaaattggac	360
tcagaccggg	atccaccctg	accgacgtcc	caagccccca	ccccccaccc	cccaccatgg	420
gcccagatcc	agtcctcttt	gaatagggcc	tggcctgtgt	tcacgggaca	tctgagacat	480
tgccgaggcg	ctgcattggt	ggatcttgcc	agaagtttgc	ccagtgcaga	tttgggcaga	540
atctcaaaact	gccttgggat	gtaggagaga	aaccaggcct	ggtcaagttc	atgggaagag	600
gtggaaacag	accccatagg	ctggggcttg	ggcagctgta	ggaagccctc	tctgctgcct	660
ccctgcctgc	tctctgcttt	gaagcatctt	ccccagtgcc	cccagttctc	tgccctctca	720
acgttggggg	caaatactga	ggaataccca	gactggctct	ctgggccaaa	gaggaccctc	780
tccagaaaga	gcagggccca	gtgcggcttc	ctaaagggca	ggggaagggc	ctggccactc	840
cccagaggct	actcaccagc	catcaggata	gccccaggaa	gcaggccttc	tcagagccat	900
tttattactt	tattttatta	ttttatttaa	ttttaaattt	atcttttgag	acagagtctc	960
actctgttgc	ccaggctgga	gtgcagtggg	gcgatctcaa	cccactgcag	cctctgcctc	1020
caggggttcaa	gggattctcc	cacctcagcc	tcccaagtag	ctgggattac	aggtgcccgc	1080
caccacaccc	ggctaatttt	catattttta	gtagagatga	ggtttcacca	tggtggccag	1140
gctgggtctcg	aactcctgac	ctcaagtgat	ccgcccgcct	cggcctccca	aagtgctagg	1200
tcaagcccat	tttaaagtgt	aagaaactga	ggctgaggta	aattccctcc	ccagggatcc	1260
tgctgcagcc	agaagggtgt	aaaacaggac	ttcaccgggg	tctgtctggc	gtgaaaggca	1320
gtgttcttgt	accaccctag	ggggcctgag	agaactgagt	ccctcgggca	taactgacag	1380
ttctgttccc	attattccgc	aggggctcgg	atctggctgt	atgctttcca	ggatggcctt	1440
ggagaccac	ataagcccta	caccctttgg	gaagctgcat	gttgggttgg	ggtgccgtca	1500
gtggcacttg	tgggaaggtgc	agacctgtgt	gggtgtgtgg	gcccaggggc	cctggtccct	1560
tcctcccttt	gtagggctgg	ttgtgtgtgt	cctggacctg	gggggcacgt	tcacgtggtg	1620

aatttgtcta	tttactatcc	ccgctttggg	gctggtgcc	gcacaggccc	ttgtgaaggg	1680
ggtgcctttg	tctggagtgg	gactgtggcc	cctccctcag	cgtggtgact	tctgtgtcag	1740
ggcttcagca	gggaagcaga	gcccctgagt	gttcggaaca	agggcgcat	tgcaggagtt	1800
agactgtgtg	tgatggaggg	aggaggggca	ggaggaaagg	tcagaaggag	agttcctggg	1860
aaggtccttg	aggagcctgg	tgaggtgcta	actggtgtgg	aggacactca	gggcctgtgg	1920
ggacatctcc	tactgctggg	ggccagccac	aaagggaaact	ggccgaagtc	ctgtccccgc	1980
cttcacagcc	cagcatctgg	tcacaaggca	ggtacttgga	agggcgcggg	cacctgggcc	2040
aaaagtgcct	gggttccctt	tgcctttcac	tgagatgacc	ttcggggcag	gtggctgctg	2100
cctccctcc	tgtccccagg	ttttgccaac	tggccagagg	aaggggtcct	gggaagcagg	2160
ggggccagaa	gcccctctctg	caaggaaagc	ccgaggggtg	tgggaggaag	gaaggaatgc	2220
ccaggctggc	gaggctctaa	gtcaccctgg	cttggctctc	ctcagatcct	gaacccgcg	2280
ccctccccgg	ccacggaccc	ctccctgtac	aacatggaca	tgttctactc	ttcaaacatt	2340
cgggccactg	cgagaccgta	caggtaggac	atcccttgca	gccctccatg	gccattgggt	2400
tcccgccagc	cgtggtgga	ggggccta	ccccatgcca	ctgatgaggg	gaggtattct	2460
gggtgcta	gggcaggtgc	cgggcccagc	cctgctctcc	tctgctctgc	caaccacact	2520
aggtgcctc	cccagacaag	ctcagcgggc	actgcatggt	gggttcagaa	atcagcagaa	2580
ctccacgttc	tgagctgctc	ttcaagttgc	tccatggggg	gttactttta	agctgggaaa	2640
tggtgtggc	gtcagagggc	cgggggcttg	ggctccagag	tctgactgtg	tgtttgagtc	2700
cggctgtgga	aacctagcca	ttgagatgcc	ccctcttggg	ggctctgtcc	tcttaggatg	2760
ggacaagtct	gtgaaggctg	ctgcagcacc	caccgtagac	ccctaatacgt	gtgacgtcac	2820
caggatggtc	cgggctgctc	acttgccaca	gtggcctggt	tgagcccggg	aagccaacgg	2880
ggctgctcag	ctggacacca	gccccccgag	ctgcccattgt	tggggtcaca	ggccccacct	2940
ccctggttgg	ggagggggcaa	ctgagagtgt	ggagaggtgg	gaccaggtg	tgctgggtctc	3000
cgcaggggct	ggatcagagc	ctgggatggg	caggggtgagc	ctcctgacct	ttaacccagt	3060
ggtgtcaggc	aacgtggccc	acccgccagc	cgcaccaggc	cccacccccg	caggtgaagg	3120
ggtgggatag	gctgggcctg	ggccaggaca	cctctggacc	acgcattcct	cattgcttgg	3180
gtccctggag	cagcagggcc	tcccagtggt	ggtgcgcct	gccacctagt	ggccatttcc	3240
acgaactccc	aggcctggct	ggggagccgg	aactgcagcc	tccatttcca	ccccactccg	3300
ggtcgggcca	cctccctgat	gcctcagtat	tatatcaaac	tgtcacagtc	tgtcccacag	3360
ccttacagac	cactgtctcc	agaatgggtca	catccacact	gggcagccca	gtctcgctag	3420
ttcctcgctc	cacctcctgc	ctttgctcat	gcccgtcctg	ctctggggccc	accgcggaca	3480
catcttcccc	ccgcccgcg	tctgacctca	cagcagctgg	gccccaaagag	gagtatcctg	3540
tctgctgca	cttttctcaa	cacccggtgt	tggctgcacc	ttcccaccca	ttgcaggccc	3600
ctctgtgaca	ggacgggggc	tccataaacac	accacagttc	cgagtctgaa	ctcacacagt	3660
gggatgcggc	gtttctgggc	cacagttggg	tgcaggtagc	ctctgggagg	atgggaggtc	3720
aggagccatc	ttgcgagtca	ggttgcttga	actcaggatg	gaagtgttcc	gggcccattg	3780
gttgctgtat	tagcctgttc	tcacgtgct	aataaagaca	taccaagac	tgggtaattg	3840
taaaggaaag	aggtttaacg	gactcacagt	tccacctgcc	tgggggtggc	tcacaatcat	3900
ggtagaagac	aaggaggagc	aagtcacatc	ttacatggct	tcagggaaca	gacagcatga	3960
gaaccaagcg	aaaggggttt	ccccttgtaa	aaccatcaag	tctagtgaga	tttattcact	4020
accacagaaa	cagtatgggg	ggaaccaccc	ccatgattca	atcatctccc	actgggtccc	4080
tcccacagca	cgtgggaatt	atgggagtag	aattcaagat	gagatttggg	tggggacaca	4140
gccaacccct	atcggttgcc	aacatttaca	gtaacagtgt	taggtgaaca	gttgtccagt	4200
ctcctgtttt	gtcggacact	gtttctagca	ccttccaggc	agaatctcat	gtatccttca	4260
ctttcgaaat	gggtactatt	tcacccccac	ttttatcaat	gagaaactaa	agctcgaaga	4320
ggtcaagtaa	gttcttgccc	aaggtcagct	agcaggctct	agaggcctcg	ttctccttag	4380
aggcagcctt	gccagggccc	aggcttggca	ggctgcaggg	caggtgcggg	catgcccattg	4440
gtagaggtgg	gaccattgag	gctcagagag	ggtaagtgat	gagccctggc	gacacagcgg	4500
ggtgggtcca	gagtccggcc	tgcactctct	ggagctggcc	agtggacagg	cctttcccgt	4560
tcacagcccc	ggggctgctg	tgcaccaccg	ggcgatgtg	cctaccgaat	cccactctc	4620
tgtgtgtgtc	cctttcaggc	cctacatcat	tcgaggaatg	gcgccccga	cgacgcctg	4680

cagcaccgac	gtgtgtgaca	gcgactacag	cgccagccgc	tggaaggcca	gcaagtacta	4740
cctggatttg	aactcggact	cagaccccta	tccaccccca	cccacgccc	acagccagta	4800
cctgtcggcg	gaggacagct	gcccgcctc	gcccgcacc	gagaggagct	acttccatct	4860
cttcccgc	cctcgtccc	cctgcacgga	ctcatcctga	cctcggccgg	gccactctgg	4920
cttctctgtg	ccctgtaaa	tagttttaaa	tatgaacaaa	gaaaaaata	tattttatga	4980
tttaaaaaat	aaatataatt	gggattttaa	aaacatgaga	aatgtgaact	gtgatggggt	5040
gggcagggct	gggagaactt	tgtacagtgg	agaaatattt	ataaacttaa	ttttgtaaaa	5100
cagaactgcc	attctttcgt	gccctgtgtg	catttgagtt	gtgtgtcccc	gtggagggaa	5160
tgccgacccc	cggaccacca	tgagagtcct	cctgcaccgc	ggcgtccctc	tgtccggctc	5220
ctgcagggaa	gggctggggc	cttgggcaga	ggtggatata	tcccctggga	tgcacccctg	5280
agctgcaggc	cgggcgggct	ttatgtgcgt	gtggcctgtg	ccgtcagaaa	gggccctggg	5340
cttcatcacg	ctggtgctgt	tcgtcttcct	cagattctta	gtcttttttt	tttttttttt	5400
ttttttgaga	cggagtcttt	ctctgtcatc	caggctggag	tgcaagtggta	caatctcagc	5460
tcaactgaag	ctccgactcc	caggttcaag	tgagtctcct	gcctcagcct	cccagtagc	5520
tgggactaca	ggtgcgcgcc	accacacccg	cccagctaata	ttttgtattt	ttagtagaga	5580
tggggtttca	ccatgttggc	caggatgata	tcgatctctt	gacctcgtga	tccgccacc	5640
tgggctccc	aaagtgtctg	gattataggc	atgagccact	gtaccagct	gactcttagt	5700
cacttttaag	aaggggactg	tgccttcatt	tttcaactgg	ccctgcagaa	tatatgcttg	5760
ggctctgggc	tcttctgaac	ctgtgttggc	ttccatctga	cctctctgtg	ccagcccaag	5820
gctgtctgct	ttcctgaggg	caaggagccc	catgaactgc	tgttgactcg	ctggatgggg	5880
ctgtctgagc	cactctgcca	caccacgtgc	ccctggcagg	gagggaaatcc	ctgggtcctc	5940
acaggaacag	tcagcaagcc	acacctgacg	cctgtctgtg	gcccacccct	gcggtgctgg	6000
agaagacaga	caaggcctgg	tcactgcctc	tgcaggggtc	ccagtccgtg	gaaggagaca	6060
gtaatctagg	cattttcggg	ggggaagctg	agctgttctc	gtgtcctgaa	ggccaggcgg	6120
gaacagccgt	cttcagaggg	aaggagaaaa	atgcacatcg	catcagtggg	gaagggcctg	6180
acttccctca	gcatggtgga	gggaggtcag	aaaacagtca	agcttgttgc	tgggtgacag	6240
tgcattttaat	aatcaaaaata	taggctgggt	acggtggctc	atgcctgtaa	tcccagcact	6300
ttgggaggct	gaggcagggt	gatcacttga	ggccaggagt	ttgagaccgg	cctggccaac	6360
atggcaaaac	ctcaactact	aaaatacaaa	aactagccgg	gcgtgggtgg	gcacgcctgt	6420
aatcccagct	acttgggagg	ctgaggcagg	agaattgctt	gaacctggga	ggcggaggct	6480
gcagtgagcc	gagattgtgc	cactgcactc	cagcctgggc	aacagagcaa	gactctgtct	6540
caaaaaaaaa	aaaaaaaaaaa	gcaatacaaa	atacaaatat	cactttcact	aaaagaaggg	6600
atggaagacc	caaaacaaac	agaaaacaac	aaaatggcag	gagtaagtcc	ccacttatca	6660
ataataacat	tgactgtaaa	taggctaagc	tctgcaatca	aaagagtggg	ccaggagcgg	6720
tggctcacgc	ctgtaattcc	aacgctttgg	gaggctgagg	cggatggatc	atttgatgtc	6780
acgagtttta	agaccagcct	ggccaacaag	gtgaaacccc	atctgtacta	aaaatacaaa	6840
aattagccag	gcggtagtgg	cacgcacctg	taatcccagc	tacttgtgag	gctgaggcag	6900
gagaatcact	ggaggctggg	aagcggagggt	tgtgtgagc	caagatggag	ccactgcact	6960
cccacctggg	cgacagagtg	agatcctgtc	ttaagaaaaa	aaagagtggg	tgaatggatc	7020
aaaaaacaag	acccaaccat	ctcttgcata	caagaaacac	actttaccta	taaaaacaca	7080
ctaggccagg	tgtggtggct	cacacctgta	atcccagccc	tttgggaggc	ctgactggca	7140
gatcacctga	ggccaggagt	ttcagaccag	cttgaccgac	atggcaaaaac	cccatctctc	7200
ctaaaaatac	aaaaaaacaa	aaaaaagaaa	aaggctggaa	gtagtgatgt	gtgcctgtag	7260
cccagctac	ttgggaggct	gaggcaggag	aattgcttga	atccgggaag	tggaggttgc	7320
agtgagccag	gatggtgcca	ctgcactcca	gcctgggtga	cagagcgaga	ccctgtcata	7380
aaaaaaaaaa	gaaaagaaaa	gaaaaacgag	aaaaacaaac	acaaaattag	tagaagaaaa	7440
gaaataataa	agatcagaac	aggccaggct	catgggcaca	gtggctcaac	tcctacctgc	7500
tcaggagttt	gagaccagtc	tggccaacat	ggcaaaaccc	catctctcct	aaaaatatga	7560
aaaaaaaaaa	ataggctgga	tgtggtgatg	tgtgtgtgcc	tgtagcccca	gctacttggg	7620
aggctgagggt	gggagaatca	cttgagccca	ggaagtggag	gctgcagcga	gtcatgaatg	7680
cacctgcac	tctagctggg	taactggagt	gagattctgt	ctcaaaaaag	caaagaccag	7740

agcagaaata	aatgaaatgg	aaatgaagga	aacaatgcaa	aatgatacaa	aaagtttttt	7800
cgaaaagata	aacaaaatca	acaaaccttt	agccagatta	agaaaaaaag	agagaagacc	7860
caaataaata	aatccgaga	taaaaaagga	gacattacca	ctgataccac	agaaattcaa	7920
aggatcatta	gaggcaacta	tgtgcaacta	tatgctaata	aactggaaaa	cctagaagaa	7980
ctgggtaaat	ttctagacac	atacaaccta	tcaagattga	accatgaaga	aatccaaaac	8040
ctgaacaggc	cgggcacggg	ggcttacgcc	tgtaatccca	gcacttttga	aggcctgaga	8100
tcaggagttc	gagaccagcc	tggccaacat	ggtgaaaccc	catctctact	gaaaaaatat	8160
aaaaattagc	cgggcggtgg	ggcggttgcc	tctaattgtc	gccactcggg	aggctgaggc	8220
aggaaaaatc	cttgaacctg	ggaggcatag	gttgccagcg	gccgagggtg	caccactgca	8280
ctccagcctt	ggcgacagag	ccagactcca	tctcaaaaaa	attaaaataa	caaaaacctg	8340
aacagaccaa	taacaagtaa	tgcgatgaaa	actgtaataa	aatgtttccc	aacaaagaaa	8400
gcccaggaac	aaatggcttc	actgctgaat	tttaccaaac	atTTTTTTTT	ttttgagacg	8460
gagtctcgct	ctgtcgccca	ggctggagtg	cagtgggtga	acctcggttc	gctggtaact	8520
tatgcctctc	aggctgcaag	tgattttcct	gcttcaggcc	ccccgagtgg	ctggaaatta	8580
gatggtactt	gtcaaacaag	gocctggctaa	atttctatat	ttccttcaag	tagaagatgt	8640
gcttccaaca	aagggtgggt	tacggctggc	ttctgaaaat	cttggttttc	aaggctcccc	8700
aaaag						8705

<210> 11
 <211> 66933
 <212> DNA
 <213> Homo sapiens

<400> 11						
tataatcaag	cgcggttccgt	ccagtcagggt	gggaagattt	tcgatatgct	tcgtgatctg	60
ctcaagaacg	ttgatcttaa	aggggttcgag	cctgatgtac	gtatttttgc	taccaaatac	120
agcaatagta	atggctctca	gtccccgtgg	atggaggagc	aaattcggga	tgccctggga	180
agcatgggtc	taaaaaatgt	tgtacgtgaa	acggatgaag	ttggtaaagg	tcagatccgg	240
atgagaactg	tttttgaaca	ggccattgat	caacgctctt	caactgggtg	ctggagaaat	300
gctctttcta	tttgggaacc	tgtctgcaat	gaaattttcg	atcgtctgat	taaaccacgc	360
tgggagatta	gataatgaag	cgtgcgcctg	ttattccaaa	acatacgctc	aatactcaac	420
cggttgaaga	tacttcgtta	tcgacaccag	ctgccccgat	ggtggattcg	ttaattgcgc	480
gcgtaggagt	aatggctcgc	ggtaatgcca	ttactttgcc	tgtatgtggg	cgggatgtga	540
agtttactct	tgaagtgtct	cgggggtgata	gtgttgagaa	gacctctcgg	gtatggtcag	600
gtaatgaacg	tgaccaggag	ctgcttactg	aggacgcact	ggatgatctc	atcccttctt	660
ttctactgac	tgggtcaacag	acaccggcgt	tcggctgaag	agtatctggg	gtcatagaaa	720
ttgccgatgg	gagtgcgcgt	cgtaaagctg	ctgcatttac	cgaaagtgat	tatcgtgttc	780
tgggtggcga	gctggatgat	gagcagatgg	ctgcattatc	cagattgggt	aacgattatc	840
gcccacaacg	tgcttatgaa	cgtggctcagc	gttatgcaag	ccgattgcag	aatgaatttg	900
ctggaaatat	ttctgcgctg	gctgatgcgg	aaaatatttc	acgtaagatt	attaccgcgt	960
gtatcaacac	cgccaaattg	cctaaatcag	ttgttgctct	tttttctcac	cccggtgaac	1020
tatctgcccg	gtcagggtgat	gcacttcaaa	aagcctttac	agataaagag	gaattactta	1080
agcagcaggc	atctaacctt	catgagcaga	aaaaagctgg	ggtgatattt	gaagctgaag	1140
aagttatcac	tcttttaact	tctgtgctta	aaacgtcatc	tgcatcaaga	actagttaa	1200
gctcacgaca	tcagtttgc	cctggagcga	cagtattgta	taagggcgat	aaaatgggtg	1260
ttaacctgga	caggtctcgt	gttccaactg	agtgtataga	gaaaattgag	gccattctta	1320
aggaacttga	aaagccagca	ccctgatgcg	accacgtttt	agtctacgtt	tatctgtctt	1380
tacttaatgt	cctttgttac	aggccagaaa	gcataactgg	cctgaatatt	ctctctgggc	1440
ccactgttcc	acttgtatcg	tcggtctgat	aatcagactg	ggaccacggg	cccactcgta	1500
tcgtcgggtc	gattattagt	ctgggaccac	ggtcccactc	gtatcgtcgg	tctgattatt	1560
agtctgggac	cacggtccca	ctcgtatcgt	cggctctgata	atcagactgg	gaccacggtc	1620

ccactcgtat	cgtcgggtctg	attattagtc	tgggaccatg	gtcccactcg	tatcgtcggg	1680
ctgattatta	gtctgggacc	acgggtccac	tcgtatcgtc	gggtctgatta	ttagtctgga	1740
accacgggtcc	cactcgtatc	gtcgggtctga	ttattagtc	gggaccacgg	tcccactcgt	1800
atcgtcgggtc	tgattattag	tctgggacca	cgatcccact	cgtgttgctg	gtctgattat	1860
cgggtctggga	ccacgggtccc	acttgatttg	tcgatcagac	tatcagcgtg	agactacgat	1920
tccatcaatg	cctgtcaagg	gcaagtattg	acatgtcgtc	gtaacctgta	gaacggagta	1980
acctcgggtgt	gcggttggtat	gcctgctgtg	gattgctgct	gtgtcctgct	tatccacaac	2040
attttgcgca	cgggttatgtg	gacaaaatac	ctgggttacc	aggccgtgcc	ggcacgttaa	2100
ccgggctgca	tccgatgcaa	gtgtgtcgtc	gtcgaagagc	tcgagagctc	ggacatgagg	2160
ttgccccgta	ttcagtgtcg	ctgatttgta	ttgtctgaag	ttgtttttac	gttaagttga	2220
tgcatatcaa	ttaatacga	acctgcgtca	taattgatta	tttgacgtgg	ttgatggcc	2280
tccacgcacg	ttgtgatatg	tagatgataa	tcattatcac	tttacgggtc	ctttccgggtg	2340
atccgacagg	ttacggggcg	gcgacctcgc	gggttttcgc	tatttatgaa	aattttccgg	2400
tttaaggcgt	ttccgttctt	cttcgtcata	acttaatggt	tttattttaa	ataccctctg	2460
aaaagaaagg	aaacgacagg	tgctgaaagc	gagctttttg	gcctctgtcg	tttcctttct	2520
ctgtttttgt	ccgtggaatg	aacaatggaa	gtccgagctc	atcgctaata	acttcgtata	2580
gcatacatta	tacgaagtta	tattcgatgc	ggccgcaagg	ggttcgcgtc	agcgggtggt	2640
ggcgggtgtc	ggggctggct	taactatgcg	gcacagagac	agattgta	gagagtgcac	2700
catatgcggg	gtgaaatacc	gcacagatgc	gtaaggagaa	aataccgcat	caggcgccat	2760
tcgccattca	ggctgcgcaa	ctgttgggaa	gggcgatcgg	tcggggcctc	ttcgtatatta	2820
cgccagctgg	cgaagggggg	atgtgctgca	aggcgattaa	ggtgggtaac	gccaggggtt	2880
tcccagtcac	gacgttgtaa	aacgacggcc	agtgaattgt	aatacgactc	actatagggc	2940
gaattcgagc	tcgggtacccg	gggatcctct	agagtcgacc	tcgaggcatg	caagcttctc	3000
ttgtgcgggt	tgtacgtgtg	caggtcacac	tggtgagtta	ggcagggcac	agatgccag	3060
agcagagggga	actttccttg	gggattcaac	acgtgcaagt	cttaggggct	ggcaaactct	3120
gccctcagct	agagaggggg	cttttatttg	agaccagaat	cacctgagca	tcctcctgtc	3180
cccagctgtg	tccagcctgt	ctgcagggac	atcctgagag	gaccaggctc	tcctcctcct	3240
cacctgccta	agtgcactc	tgaacctgtg	ccacctgtgc	cgtggagggg	cgtgacctca	3300
agctgctcag	ccagcagcag	gcttgccct	ggggggcagc	agagaccag	gtggctgtgg	3360
gggtgggtgct	tcgtggcgtg	gttctgaaac	ttcgttggaa	gtgtgtggac	agtgccttgc	3420
ctgttctctg	tgggacccta	tttagaaacg	aggctcaggt	tactgggggt	catcactgtg	3480
ttctgatggc	ccagctgtgt	ggaggccgcg	gtgcagcccc	atccaaggag	ccagggccct	3540
gggtctagcc	gtgaccagaa	tgcatgcccc	ggagggtgtt	ctcatctcgc	acctgtgttg	3600
cctgggtgtg	caagtgggtc	tgaaactctg	tgtagctct	tggtgttct	gaaagtgcct	3660
ccgggtctca	ggcctcagaa	ccagggtttc	ccttcctctc	gggtggcctg	gagcatctgg	3720
gcagttgagc	aaagagggcg	attcaactga	aggatgtgtc	tggccctgcc	taggagcccc	3780
ccggcacggg	gctggggcct	gaagctgccc	tcgggtgggt	gagaggaggg	agcgatgaag	3840
tggcgtcgag	ctgggcagga	aggggtgagc	cctgcaagg	gggcatgctg	gggacgtga	3900
gcagcatggc	cagcagctgg	gtctgcagcc	tggtaccggg	cgggacttgt	ggttggggct	3960
ggtttgtggc	caggagaggg	gctggcagga	gacaaggggg	actgtgaggc	agctcccacc	4020
cagcagctga	agcccaatgg	cctggctgtg	tggctctcag	ctgcgtgcat	aacctctcag	4080
tgcttcagtt	ctctcatttg	taaaatgagg	aaacaaacag	tgccagcctc	ccagaggtgt	4140
catgaggatg	aacgagtgac	catgtagcat	gggtgggtg	cgtgtcacct	aacatcacca	4200
gcctttgcaa	ggagagccct	gggggcctgg	ctgagtattt	cccttgccc	gcccacccca	4260
ggcctagact	tgtgcctgct	gcaggccctt	gacccctgac	cccattgcac	ctgtctccac	4320
aggagccgag	gaggtgctgc	tgctggcccc	gcggacggac	ctacggagga	tctcgtctga	4380
cacgcgggac	ttcaccgaca	tcgtgctgca	gggtggacgac	atccggcacg	ccattgccat	4440
cgactacgac	ccgctagagg	gctatgtcta	ctggacagat	gacgaggtgc	gggccatccg	4500
cagggcgtac	ctggacgggt	ctggggcgca	gacgctgggt	aacaccgaga	tcaacgaccc	4560
cgatggcatc	gcggctgact	gggtggcccc	aaacctctac	tggaccgaca	cgggcacgga	4620
ccgcacogag	gtgacgcgcc	tcaacggcac	ctcccgaag	atcctgggtg	cggaggacct	4680

ggacgagccc	cgagccatcg	caactgcaccc	cgtgatgggg	taagacgggc	gggggctggg	4740
gcctggagcc	agggccaggc	caagcacagg	cgagagggag	attgacctgg	acctgtcatt	4800
ctgggacact	gtcttgcac	agaacccgga	ggagggcttg	ttaaaacacc	ggcagctggg	4860
ccccaccccc	agagcgggtga	ttcaggagct	ccagggcggg	gctgaagact	tgggtttcta	4920
acaagcaccc	cagtgggtccg	gtgctgctgc	tgggtccatg	cgtagaaagc	cctggagacc	4980
tggagggagc	cctttgttcc	cctggcttca	gtttcctcat	ctgtagaatg	gaacgggtcca	5040
tctgggtgat	ttccaggatg	acagtagtga	cagtaagggc	agcctctgtg	acactgacca	5100
cagtacaggc	caggcctctt	tttttctttt	tttttttttg	agatggagtc	tcaactctgtc	5160
gcccaggctg	gagtgcagtg	gtgtgatctc	agctcactac	aacctctgcc	tcctgggctc	5220
aagtgattct	cctgcctcag	cctcctgagt	agctgggatt	acaggtgcct	gccactgtgc	5280
ttggctaattg	tttgtatttt	tggtagagat	ggggtttcac	cgtcttggcc	aggctggctg	5340
caaactcctg	acctcagggtg	atccacctgc	ctcagcctcc	caaagtgctg	ggattacagg	5400
catgagccac	cacgcccggg	caggccaggc	ctcttttgaa	cactttgcac	accatgggtc	5460
ttttcatcca	ggggggtagg	tacagttgta	cagttgagga	cactgaagcc	cagagaggct	5520
cagggacttg	cccagggtca	cacagcagga	tgtggcaggt	gtggggctgg	gcctggcagc	5580
gtggctccag	ctttccagca	tagaaatctg	tgaagcaga	tagtttgtcg	gtcggtaggg	5640
gagactttct	gagacccgcc	ccagcggctc	agagggtagt	agccaggggc	cttcctgggg	5700
gctcataacc	cagaacactg	aatgggaaaa	ccctgatgga	ggaggcgag	tggagctgtg	5760
ggtgccgatg	ggaagtccca	gaggagctgg	gaggtcagta	gcggtgctgc	cctctgtgga	5820
gcacttagtg	ggcaccagg	gtgtttccag	gttcatggcc	ctgggacctg	aagctcagaa	5880
ggtgaagtaa	cttgcccagg	gcacccgtcg	ggcagcggcg	ggcagaggat	ttgtgggctg	5940
tggagcctgt	gctcgtggcc	cagccctggg	ggttgtgagt	gtgctggccg	gggagctttt	6000
cctgcaagtg	gactgggtgc	taggagccag	catgtcaggc	agcaggcagc	gggagtgcag	6060
caggcagcgg	gagcacagca	ggcagagggc	ggggctcgag	cagccatccg	tggaccctgg	6120
ggcacggagg	catgtgggag	agggctgctc	catggcagtg	gctgaagggc	tgggttgtgc	6180
cccaggagg	gtggatgagg	gtaagaagtg	gggtccccag	gggcttttagc	aagaggaggc	6240
ccaggaaactg	gttgccagct	acagtgaagg	gaacacggcc	ctgaggtcag	gagcttggctc	6300
aagtcaactgt	ctacatgggc	ctcgggtgtcc	tcatctgtga	aaaaggaagg	gatggggaag	6360
ctgactccaa	ggccccctct	agccctgggt	tcatgagtct	gaggatccca	gggacatggg	6420
cttggcagtc	tgacctgtga	ggtcgtgggg	tccagggagg	ggcaccgagc	tgggaagcggg	6480
aggcagaggg	gctggccggc	tgggtcagac	acagctgaag	cagaggctgt	gacttggggc	6540
ctcagaacct	tcacccctga	gctgccaccc	caggatctgg	gttccctcct	tggggggccc	6600
cagggaacaa	gtcacctgtc	ctttgcatag	gggagccctt	cagctatgtg	cagaagggttc	6660
tgetctgccc	cttcctccct	ctaggtgtct	agctcctcca	gcccactagt	cagatgtgag	6720
gctgccccag	accctgggca	gggtcatttc	tgtccactga	cctttgggat	gggagatgag	6780
ctcttggccc	ctgagagtcc	aagggtctgg	gtgggtgaaac	ccgcacaggg	tggaaagtggg	6840
catccctgtc	ccaggggagc	ccccagggac	tctggtcact	gggcttgccg	ctggcatgct	6900
cagtccctca	gcacttactg	acaccagcat	ctactgacac	caacatttac	aaacaccgac	6960
attgaccgac	accgacattt	accgacactg	acattttacca	acactgttta	ccaacactga	7020
catctactga	cactggcate	taccaacact	gacattttacc	gacactgaca	tttaccaaca	7080
ctattttacca	acactgacat	ctactgacat	tggcatctac	caacaccaac	atttaccgac	7140
accaacattt	accaacactg	aaattttaccg	acaccgacat	ttaccgacac	cgttttaccaa	7200
caccgacgtt	taccgacacc	gacattttacc	gacactgata	tttaccaaca	ctgacatcta	7260
ctgacgttgg	catctactga	caccgatgcc	agcatctacc	aacaccgaca	tttaccaaca	7320
ctgacattta	ctgacactga	tatctactga	cactggcate	tactgacacc	aacattttacc	7380
aacaccagca	tctaccaaca	ccgacattta	ccaacaccag	cattttaccaa	caccgatgtt	7440
taccaacgcc	gacgttttacc	gacgccagca	tctaccaaca	ctgacattta	ccgacaccga	7500
cattttaccga	cactgacatt	tactgacact	gacatctact	gatactggca	tctaccgaca	7560
ctgatattta	ccaacgccag	catctactga	cactgatgtt	taccaacacc	gacattttacg	7620
agcaccgaca	tttactgaca	ccaatattta	ctgacatcaa	cattttagcca	tgtgatgggg	7680
gccggcttgg	gggcaggcct	tgctcttggc	actggggatg	ctgcagagac	cagacagact	7740

catggggtca	tggacttctg	cttcttctcc	agcctcatgt	actggacaga	ctggggagag	7800
aaccctaaaa	tcgagtgtgc	caacttggat	gggcaggagc	ggcgtgtgct	ggtcaatgcc	7860
tccctcgggt	ggcccaacgg	cctggccctg	gacctgcagg	aggggaagct	ctactgggga	7920
gacgccaa	cagacaagat	cgaggtgagg	ctcctgtgga	catgtttgat	ccaggaggcc	7980
aggcccagcc	acccctgca	gccagatgta	cgtattggcg	aggcaccgat	gggtgcctgt	8040
gctctgctat	ttggccacat	ggaatgcttg	agaaaatagt	tacaatactt	tctgacaaaa	8100
acgccttgag	agggtagcgc	tatacaacgt	cctgtgggta	cgtaagatgt	tatcattcgg	8160
ccagggtgcct	gtagacacag	ctacttggag	actgaggtgg	gaggatcgct	ggagtccaag	8220
agtttgaggc	cagcccgggc	aaaggggaca	caggaatcct	ctgcactgct	tttgccactt	8280
actgtgagat	ttaaattatt	tcacaataca	aaattaagac	aaaaagttaa	tcacatatcc	8340
actgccctgc	ttaagacaga	aaacatgggt	gttgttgaag	ccagaggcag	ctgctggcct	8400
gagtttggtg	attgggttcc	aagcagttga	aggcagtttt	gtttttccat	agatgtctgt	8460
tctccctttg	ctgggtgcag	cctcgccctg	ctgctgtggt	cgggtttcag	tggcctcgtc	8520
ccgtggacgc	agcctcgccc	tgccgctgtg	gtcgggtttc	agtggcctcg	tcccgtggac	8580
gcagcctcgc	cctgctgctg	tggtcggggt	tcagtggcct	cgtcccgtgg	acgcagcctc	8640
gccctgcgcg	tgtggtcggg	tttcagtggc	ctcgtcccgt	ggacgcagcc	tcgccctgcc	8700
gctgtggtcg	ggtttcagtg	gcctcgcccc	atgggcgtgc	tttggcagct	ttttgctcac	8760
ctgtggagcc	tctcttgagc	ttttttgttt	gttgtttgtt	tttgtttgat	tttgtttgat	8820
tgtttgtttt	tgttgtcgtt	gttgttgccc	aggctggagt	gcagtggcgc	gatctcagct	8880
cactgaaacc	tctgcctcct	tgggttcattg	ccattctcct	gcctcagcct	cccacatagc	8940
tgggattaca	agtgcgccgc	accacgcctg	gctaaatttt	gtatttttag	tagacagggg	9000
gtttcaccat	gttggtcagg	ctggtctgga	actcctggtc	tcacatgac	cacctgcctc	9060
ggcctcccaa	agtgttggga	ttacaggcgt	gagccaccgc	gcccagcctc	tgttgagcat	9120
attttgaggt	tctcttggtg	ccagtgatat	gtacatgtgt	ccccatcgca	ccatcgctac	9180
ccattgaggt	gacattgggtg	cctctcctcg	gggtggatgc	ctccctctgt	ttccagcaac	9240
ttctgaagga	ttttcctgag	ctgcatcagt	ccttggtgac	gtcaccatcg	gggtcacctt	9300
tgtctcctc	agggtcccca	ggggaggccc	gaatcaggca	gcttgcaggg	cagggcagga	9360
tggagaacac	gagtgtgtgt	ctgtgttgca	ggatttcaga	ccctgcttct	gagcgggagg	9420
agtctcagca	ccttcagggt	ggggaaccca	gggatggggg	aggctgagtg	gacgcccttc	9480
ccacgaaaac	cctaggagct	gcaggtgtgg	ccatttcctg	ctggagctcc	ttgtaaattgt	9540
tttgtttttg	gcaaggccca	tgtttgcggg	ccgctgagga	tgatttgctt	tcacgcatcc	9600
ccgctacccg	tgggagcagg	tcagggactc	gcgtgtctgt	ggcacaccag	gcctgtgaca	9660
ggcgttggtc	catgtactgt	ctcagcagtg	gttttcttga	gacagggctt	cgctcgctca	9720
cccaggcgag	agtgcagtg	cgcaatcacg	gctcgctgta	gcctcaatct	ccctgggctc	9780
agggtgacct	cctgcctcac	cctctgagta	gctgggacta	cagacacata	ccaccacacc	9840
cagctagttt	ttgtgtattt	tttgtggggg	gagatggggg	ttcgctgtgg	tgcccaagct	9900
gatctcaaac	tcttgaggca	caagcgatcc	acctgcctcg	gcctcccaa	gtgctgggat	9960
gacaggcatc	agccgtcaca	cgcagctcaa	tgattttatt	gtggtaaaat	aaacatagca	10020
caaaattgat	gattttaacc	attttaaagt	gaacagttca	ggctgggcgt	ggtggcttat	10080
gcttgtaate	ccagtacttt	gagaggctga	ggtgggcaga	tcacctgagg	tcaggagttt	10140
gagaccagcc	tggccaacat	gatgaaatcc	agtctctact	aaaaatacaa	aaattagccg	10200
ggcatggtgg	cagggtgcctg	taatcccagc	tactcgggag	gctgaggcag	gagaatcgct	10260
tgagcccggg	agggtggagg	tgcatgtatc	tgagatcatg	ccactgcact	ccaatctgtg	10320
tgacagagca	agactctgtc	ttgaaaaata	aataaataaa	aaaaatttta	aaaagtgaac	10380
aattcagggc	atttagtatg	aggacaatgt	ggtgcaggta	tctctgctac	tatctacttc	10440
tagaacactt	tcttctgccc	tgaaggaaac	cccatgccca	ccggcactca	cgccattctt	10500
cccctctctc	ccagcctctg	tcaaccacta	atctactttc	tgtctctggg	ggttcacttc	10560
ttctggacgt	tttgtgtgac	tggaaatcctg	caatatgtgg	tccttgcgtg	tggcttcttt	10620
ccatagcatt	gtgttttcca	gattcaccca	cacattgtcg	cacgttatca	gaatctcatt	10680
cctgactggg	tgcagtgggt	taggcctgta	atcctaacat	tctggggaggc	caaggcggga	10740
cgatcacttg	aggcaggagt	ttgagaccag	cctggccagc	ctagcaagac	cccagctacc	10800

aaaaaatttt	aaaagttaac	tgaacgtggt	ggtggtgggc	acttgtggtt	cccagctacc	10860
tgggaggctg	aggtgggagg	atcgcttaag	cccaggaggt	caaggctgca	gtgagctatg	10920
atcgaccac	tgcactccag	cctggacaac	agagcaagac	cctgtctgaa	aaaaaaaaaca	10980
aaaaaaaaag	ttcctttctt	tttgtggctg	gatgacatcc	cattgtatgg	ccacagcaca	11040
ttttgtttgt	ctgtttatcg	ggtggtgggc	agtggtttcc	accttttgtc	tcctgtgaat	11100
aatgctgctg	tgaacatttg	aattcaagtt	tttgtttgaa	cacctgttgt	gaattatttg	11160
gatatatgtg	taggggtagg	attgctgagt	cctatggtaa	tgttaggttt	gacttactga	11220
ggaaccatta	aactgttttc	aacagtggct	gcgcggttct	gcatccccac	cggcagtggtg	11280
tgagggttct	gactttacct	cctcacaac	gcttcttttc	catttaaaaa	aatattcagc	11340
caggtgctct	ggctcacgcc	tgtaatccca	gcactttggg	aggccgtggc	gggcggatca	11400
cctgagggtca	ggagtccgag	acgagcctgg	ccaacatggt	gtaaccccat	ctctacccaa	11460
aataaaaaa	ttagccgggt	gtggcagcgg	gcgcctgtaa	tcccagctac	ttgggaggct	11520
gaggcaggag	aatcacttga	acccgggagg	cagaggttgc	agtgagccaa	gatcgcgcca	11580
ctacactcca	gcctgggtga	caagagtga	actccatcta	aaataaaaca	aaaataaaaa	11640
taaataaaaa	tttattaaaa	cattcatcac	agccagccta	gtgggtgtcc	catgtggctt	11700
tgctcgcct	ttccctgata	actaggatgc	tgagcgtctt	gtcccaggct	tgccacacct	11760
cagcactttg	agatacgtcg	cacagtcctc	atttgcgaac	gagaaatgag	gttttagggaa	11820
cagcagctgt	gtcatgtcac	acagcgagca	gggggtctct	gagccgtctg	acccacacagc	11880
cgaccaagct	ccaatcctta	cgccctccta	gtgttggtga	tgtagcccag	ggtgctccca	11940
cattttttcag	atgagaacac	cgaagctcaa	aacaggagcg	ttttgtccac	attggataca	12000
cgatgtctgt	ggtttggtcc	tgaagtcaact	ttatatctca	gtggtccaga	ctggagtagg	12060
acaggggggt	ctggggaatg	gggaagggtg	ctcaggtgaa	aggaagggaat	tccagattct	12120
ccatactgtc	cttgggaagt	tagaagactc	agaggggtctg	gcaaagtcag	acaaagcaag	12180
agaaatgcag	tcaggaggaa	gcggagctgt	ccaggaacag	gggggtcgca	ggagctcacc	12240
cccaggaact	acacttgctg	gggccttcgt	gtcacaatga	cgtgagcact	gcgtgttgat	12300
taccactttt	tttttttttt	ttgaggtgga	gtctcgctct	cttgcccagt	ctggagtgc	12360
gtggcacgat	ctcggtcac	tgcaagctct	gcctcccggt	ttcatgccat	tctcctgct	12420
cagcctcccg	cgtagctggg	actacaggcg	cctgccaccg	cgcccggtca	atttttgtat	12480
ttttagtaga	gatgggattt	cactacatta	gccaggatgg	tctcgatctc	ctgacctcat	12540
gatccgcccc	tctcggcctc	ccaaagtgtc	gggattacag	gcgtgagcca	ccgcgccccg	12600
cccgatttcc	cactttaaga	atctgtctgt	acatcctcaa	agccctatac	acagtgtctg	12660
gttgctatag	ggaatatgag	gcttacaggc	catggtgctg	gacacacaga	agggacggag	12720
gtcaggaggt	agaagggcgg	agagaggga	caggcggagg	tcacatcctt	ggctttcaaa	12780
atgggccagg	gagagacacc	ctctgagcat	ggtaggacag	gaaagcaaga	ttggaacaca	12840
ttgagagcaa	ccgaggtggc	tgggcgtggt	ggcttacgcc	tgtaatccca	acactttgga	12900
aagctgaggt	gggtggattg	cttgaggcca	ggagttcaag	accagcctgg	ccaacatggt	12960
gagaccccg	ctctactaaa	tatacaaaaa	ttagccaggc	gtgatggtgc	atacctgtaa	13020
tcccagctgc	ttgggaggct	gaggcaggag	aattgcttaa	acctgggagg	cggaggttgc	13080
agtgagccga	gatcccgcca	ctgcactcca	gcctgggcca	cagagtgaga	ctccatctca	13140
aaaaaaaaaa	aaaaaaaaaga	taaaaagacc	aaccgaggaa	ttgaagtggg	ggggcgctac	13200
agtagcagaa	gggggatcgt	ggagcaggcc	accctgtggt	catgcactgg	aagctcatta	13260
cctgacgatt	tggagctcat	cactgggggc	ctaaggagaa	tagatactga	aggatgagga	13320
gtgatggcgc	ggggcacggg	tgtctttggt	ggccagaact	tggggactgc	tggggtgcct	13380
cactgcaggc	cttctcagcg	ccctttatat	gcttacacag	gctgtttcta	agagggggat	13440
acattgcata	agcgttttca	gactacctca	tcatgggtcc	ctttctttac	cctctgtggc	13500
cctggtggcg	cactctctgg	gaaggtgcag	gtggatgccc	agaccgccc	tgccatccac	13560
ctgcacgtcc	agagctgact	tagcctcgag	attgctgctg	gcacctcctg	ccccgggaca	13620
cctcgatgt	gcccgtggag	atgctggctc	tgtgttttct	gctggagttt	ggtgctctct	13680
ttcctcctgc	aagtggccac	cgctcttggg	tatgtcctca	ggcttctgcg	agtcattggct	13740
gcttctcagg	tccttgccca	gcgccaggag	caaaccctcc	tggcactttg	ttcaggggtg	13800
gatgcgccag	tgttctctgt	gtggaccccc	atctcacatg	agggtcttgg	gcctgcaggc	13860

tcggttcagga	aacacccgct	gagtagcgag	tgtgtgccag	ctgtgtccca	ggcaatggcg	13920
gggacagtgg	ctgctgctgg	ggttgtgggtg	gcttctgggg	actctgggga	cagctgaggt	13980
gcaaggagcc	acggctcctt	gaggatgcag	ttggactcca	ggtggaaggg	atgggttggg	14040
gaggtataaa	tggggtcagg	gaggagacac	atgtggaaca	atgggaacat	ttttaagatg	14100
ctatgtcggg	aggcaacaag	gtggccaacc	caggtgctga	ggagcccaca	ccagccctgg	14160
acgtgttttg	ccgctcacct	ttgctgggga	gtggtgggag	agaggattcc	gttccacgtg	14220
gtggtgtgcg	cagctgggct	gtgtggagct	gggcgctagg	aggaaggtgc	tttctgcggg	14280
gctagccggg	ctctgccttt	gaacacaatc	aggctccagg	ttttcagcat	ccagtgcagt	14340
agaggacttc	acgggcagct	gtggctgata	ccttgatgaa	ttgggagaag	aacaaaggtc	14400
tatgaaatga	ggtttcatgt	agatggcatt	agagacgccc	acaacagatt	tacagagtgg	14460
agcggagacg	gcggtatggg	ctgggaggcc	cctcctgctg	gccttgactg	tgacagctgt	14520
cctgggaate	agcttccagg	ccgccccagc	agcctgactg	acacacacag	gggttttagc	14580
cccatcctgc	gaccagctgt	tgccatcctc	agtgcagctc	gggagtggcg	gtggttccag	14640
ccttgggcac	cctccccacc	tgctggggcc	caccaggggc	agtcccgaca	cctacagggt	14700
gcttggagcc	gcataccagt	cctgccccac	cacgtgtgaa	gcccagagtgg	tctgtgggctg	14760
aggtccctctg	attgcacccc	cacttccctt	ctgcttcaca	tagctgcctc	ttctcaccgt	14820
ttttccagcc	tcttgggcta	ggaattccag	tgttgtgctg	gctttgcccc	aggacacctc	14880
cttagccctc	ttcctgagtc	tagagccccg	ggggttggaa	gttctggccc	ctgggacacc	14940
tgcagccaca	ctcagcttct	cctgtgagcc	tccagcatgt	ccctcagga	ccaagccctc	15000
acgttcttgc	ctccccgccc	acctgggctc	agccagggga	aggcctggct	gggagcgtct	15060
ccctctctg	ctgcccctct	ccctcttacc	ctgcccctct	ctcctctgcc	ccgccatggc	15120
ttttatatcc	tgtgccacaa	gacatggctg	tgtgtgaaag	tggcaggggc	tggcatctct	15180
gtgggtctct	gaggcccacg	ctccagtgcc	actcttccca	cccgtctggc	gtgccctcat	15240
gctggaggga	cagcccagcc	ctctcccgaa	ccccagcccc	atgtgccccg	ctgcccccg	15300
ccctctcccc	tggaagccgg	ggtcactcca	gccgtatgcc	atggtgggga	catcctgctt	15360
ccttggcctt	ccagggaagg	tcctctttcc	aaatggcgac	acctgggtcc	tgccctggagg	15420
ctggaagctg	tggcccttgt	atgcccctcc	agggtctgtg	cgctcggttg	gcccagagttc	15480
ccatcacctg	catcatcacc	atcatcattg	tcatttctgt	tgtctgtgag	ccggcctggg	15540
ctcccagagc	agagaccctc	tgaggtccag	cctgagttgg	ggctctccgtg	ctgaccctctg	15600
acggggactc	aggacgtacc	aggctctggg	caggagtgc	cccaaacct	cgtgcccttt	15660
gacaggcacc	cctgactttt	gctaagtggg	tggaggtgac	atcacttaca	gcgggagtga	15720
tgggacaggg	tctgttggct	gcactgtgct	cccagggatc	tggggagagg	ctatatccct	15780
gggctttggc	actgcagagc	tgtgtgtgtt	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	15840
tgtgtgtgtg	tgtgtgtgtg	tttgctgtgc	cgcacatgtg	tataagatct	ttttttatta	15900
catgaagcaa	gataactgtt	gctgtttcct	tttgggtttt	gtgttcaaca	gagtggggta	15960
cttcttccct	cagacaacag	aactctcccc	tttaaacacg	tgctgtcaga	gggtgggtct	16020
tgggctcatg	tctgtttgca	cagccgagtc	agaggaaaca	cagggttctt	cataaaaaaca	16080
ctgcacagca	ggcgactgtc	cagagtcagc	ctgcaggacg	gcagcagccc	tgcccctcag	16140
agcacagcta	gggtgggctg	ccttgggata	tcccgtcatt	ccctcccagc	tggcagccgg	16200
cgcccgcccc	attccttggg	gtgctgggtc	ggggggcggtg	cgcctgctct	gctcacctctg	16260
ggaatgggac	agaagctggc	agctcggaga	ggacagggct	ggacccttgg	gtggcctctg	16320
gctggaccat	ctcattgtcc	tcagacacag	cctctcgggt	ctagtttcat	ttcctgaaaa	16380
acaagtgcac	agaactagag	caggagtcca	gagctacggc	ccccgggcca	gatccagccc	16440
tgccacctgt	tttcacacca	tgtcaagct	gagtgggttt	tacatttttt	aattacttga	16500
aaaaaaaaaa	gccaaaggag	gtttcatgac	ccatgaaaat	tatatggaat	tcaaaaaaaaa	16560
aaaattatat	ggaattcaaa	tttcagtgtc	cataaataat	ttcttgagac	agggtctcgc	16620
tctgtcaccc	aggctggagt	gcagtgttat	ggcatggctc	gctgtaccct	tgacctccca	16680
ggctcaagcg	atcctcctgt	ctcagcctcc	tgagttagctg	ggactacggg	tgtgtgccac	16740
caagcccggc	taattttttt	ttaatttttag	taaagacagg	gtctttctat	gttgcccagg	16800
cttttctgga	actccatctt	ggcctcccaa	agtgtcggga	ttacaggctc	gagccacgga	16860
gcccagcctg	tttttgtttt	ttcactgata	aagttttgcc	gggtgtggta	gtgtgtgcct	16920

ctagcgattt	gggaggctga	ggtgggagga	tgccttaagc	ccaggagttt	gaggctgggc	16980
tcaagtgate	aggagggtgaa	ctatgatcat	gtcattgcat	tccagcctgg	gtgacagagc	17040
aagaacctat	ctcttaaaaa	tatatattta	aaaagtattg	ggtgtggtgg	ctcacgcctg	17100
tggccccagc	tacttaggca	tctgagggtg	gaggatggct	tgagcccagg	agtttgagggt	17160
tgcagcgagc	caagatcgtg	tactacact	ctagcctggg	tgacagagcc	cagaccctgc	17220
ctctttaaaa	aaaaaaacca	aaaaacatgt	attggaacac	agccatgcct	gttcagtcac	17280
gtgctctcca	tgctgctttc	tgctccagag	acccttatgg	cctgaaagct	gaaaatatatt	17340
tctatccttt	acaaaaaagt	ttgctgacct	ctgtcctgga	aaattcatct	cccaagttct	17400
cttccggcac	tggcgttcct	gggtgtccta	aatttgcccc	ctgttatttc	tgaactctgt	17460
tttggctctg	ttccctccca	ggagccagga	caggcacggt	ctctgcatct	tgtcccttga	17520
cgcccagagg	cttggctcgg	ctcaggcatt	cttggaaata	tctggctcca	ggaaaggcag	17580
aggcctcctg	agtcagccca	gagggaaacct	gccccagggtc	tgggggaggc	ctgaccacgc	17640
agagtggctt	ttgcgatggg	gttgggcccgg	tcaagatgtg	ctgaaagttg	tcctcagaag	17700
gccactttgg	gattccttcc	tccagtatta	gagcaactga	gagctgctca	ttgcaagcct	17760
gatgttttcc	cagttggccg	ggtccaccgg	gtgccctggg	attctgggat	ctgggtggaa	17820
agtagggggc	ttgggggagt	gtcctggggt	ctggaatcca	ggtggcaagt	ggtgaggttc	17880
agggagtggc	ttctgagcca	ccataggggt	ctctgtggga	ggctctgccc	atccaggaga	17940
ttccgcaggc	cctgccggcc	cagagccagc	gtcttgcgct	tgccgaggct	acagccagcc	18000
ccagccgggt	ggaacagccc	gtcgccctct	ctcactttgt	tttggggcca	cctgggagtg	18060
tggagcaagg	gtagagaggg	aggaagtggc	tgcgggcgc	tgcccagcac	ccttgtttgc	18120
cttggggcct	ctgtgggctc	ctttttattg	ctcttcaatg	aagccaggga	aatggacttc	18180
cttgccctcac	ttcagttcaa	catgtctgga	agtttggtat	taaaattaag	aaagtgtgga	18240
aatagagcaa	gaagagaaaa	atctctccaa	gagataatag	tgacctctga	gctgggcgcg	18300
gtggctcacg	cctgtaaatc	ccagtacttt	gggaggctga	ggcgggcaga	tcacctgagg	18360
tggggagttt	gtgaccggcc	tgaccaagat	ggagaaaccc	cgtctctact	aaaaataaat	18420
aaataaataa	ataaataaat	acaaaattag	ccaggcatgg	tggcgccctgc	ctataatccc	18480
agctaaggca	ggagaatcgc	ttgaacctgg	gaggcaaagg	ttgcagttag	ccaagatcac	18540
gccattgcac	tctagtctgg	gcaacaagag	tgaactccg	tctcaaaaaa	aataaataaa	18600
taaaaaataa	aaatagttag	ctctggccag	gtgtggcagc	tcatacccgt	aatcccagca	18660
ctttggaagg	aaggccgaga	tgggcagatt	gcttttagcac	aggagtttga	gaccagcctg	18720
gccaacatgg	tggaaaccca	tctctacaaa	aatagaataa	aattttaagag	gtaatagtga	18780
ccttttggtg	gatcgaaacc	tggattgctt	tctttttcta	aatgctgatt	cttttctttg	18840
tgggtgttgt	gttctgtgcc	gatgtccctc	ccccagccct	gttattgtga	gtggaagaag	18900
gggaaagggt	tgcgccgcta	ctgtgagccc	ctcctctcac	gctgggtgtc	cttgagagaag	18960
cctgcacttc	ttcattgtac	gccagggtcg	ggccctccc	tggagtgggt	ctgtgctgct	19020
gggatggggc	caaccctca	gatgttttct	gagtgtcaca	cacagggtgtg	tgcatctatg	19080
gcctttgcgt	gtcttctctg	tgtggaggca	aaaatgtgaa	gaaccctaga	tgattttggg	19140
accagggtct	catcacctgc	tgttcattgc	acaccggagc	atccaggcat	gggtggagag	19200
ctcagacttc	caggcacggg	cgcagggggt	ggtctaacca	tgttcccgc	cgcctgctcg	19260
tcagaaccgc	ctgttgggag	ctgttatcat	gataccatac	ctgggccctg	ggctatccga	19320
ttctgactta	attgctccag	gttggggcca	ggccgttgtt	tgtgtttttg	ttgtttcttc	19380
tgtgacgtta	gccactgggc	taatctgagc	ccctcagtta	cagggtggaga	aactgagacc	19440
catgggggtg	caaggacttg	ccgaggaccc	agagcccctt	gggggcagag	ctgaggcggg	19500
gcctggcctt	gggtcccaga	gcttccagtc	cccttcccgc	tctcctaaca	gctttttttt	19560
ttgagacaag	atctcaccct	gtcaccaggg	ctggagtgca	atggcatgat	ctcggtcac	19620
tgcaatcttc	gctagctgog	ttccagcgat	tctcctgcct	cagcctcccg	agcagctggg	19680
attacagggtg	tgtgcgcoca	tgcacagctc	gttttttttt	gtacttttag	tagagatagg	19740
gtttcaccat	gttggccagg	ctgatctcga	actcctgacc	tcaaatgate	cgcctgcctc	19800
ggcctcccaa	agtgttagga	ttacaggctg	ggatcacact	gtgcctggcc	ctagcagctt	19860
tgtcctgtgc	catccaacaa	cagatgaccg	aagtctttgt	ttcttaacat	gcattccatc	19920
tgccttacag	ttttgccacc	tgcaaaacag	aggacttgtc	gcttttctgg	taagctggaa	19980

atgtaatctg	gtagcaggag	gcctgtggaa	gcttgccctt	aatggccttg	tgtctctttc	20040
atcctgtcct	gagagccgga	gaacttggat	gttgaccta	actcaacctt	cctgttaaca	20100
tacagttctg	caggtcatg	gatcatcaga	accacgtcct	atctcacgcg	gctgtatgct	20160
tccgttggtt	caggtgtttt	tacottgaca	gtattttctc	ctcgggtggct	tttgcggtggt	20220
ttgcttttaa	tcagcattga	ctcttcaaga	aaaatattta	gctgctacat	ctcagaggag	20280
acaggggtgga	aagcatctga	gacctgcagg	ctcagactta	gaaccagaag	tgccctcaga	20340
gttcatccgg	ccctgaccca	gcgggaaatg	agttcacaga	gaagcgggag	aactttgccc	20400
caggccctgc	cgttgctcat	aactgcccc	ggctccttaca	tttgctccag	gtcctgcccc	20460
aggccctgca	gttgctcata	actgccccag	gtccttatata	ttgctccagg	tccctgcccc	20520
ggctcctgcag	ttgctctgtg	tgggtgggtgt	gatctggagc	cctccgcccc	ttgctgcacc	20580
tggggcaggc	attgctaatt	gatcccagga	ctccttccctg	cggagcacgc	cctggttctc	20640
caggcagccg	ctgcctgtca	gcctgcagtg	gttcggggaga	ggacacctgc	ttgcctgggtc	20700
tgttccaaat	cttgcttctc	atcccagcac	aggtaggggg	tgctatggga	aagggatcct	20760
cagttggccc	tgctactgct	ctatcagctg	gggacgtggc	atcctagtga	aaacatcatg	20820
gccgggcgcg	gtggctcacg	cctggaatcc	cagcactttg	ggaggctgag	gagggtggat	20880
cacttgaggt	cagaagttcg	agaccagcct	ggtcaacatg	gtgaaacca	tctctactaa	20940
aaatacaaaa	attcgccagg	tgtgggtggcg	ggtacctgta	atccgagcta	ctcgggaggc	21000
tgaggcagga	gaatcgcttg	aacctgggag	gtggagcttg	cagtgaagccg	agatcttgcc	21060
actgcactcc	agcctgggca	acagagtga	acgctgtctc	aaaatctcaa	acaaacaaac	21120
aaacaaaaaa	caaacaaaca	aagcgtcatt	tatccagcac	ccctggggaa	ccatgctacc	21180
tgggtgtttta	tggtagcttg	caaggtgcag	gtgaagttgc	tgctcttggg	cattgaaccc	21240
gtcttgtttg	gggcagctca	ggccccaggc	agggctccggg	ttggctctcg	ttgggtgtggc	21300
cctggcccat	ccagacctat	atctctgccc	tccctgcagg	gatcaatgtt	gatgggacga	21360
agaggcggac	cctcctggag	gacaagctcc	cgcacatttt	cgggttcacg	ctgctggggg	21420
acttcatcta	ctggactgac	tggcagcgcc	gcagcatoga	gcgggtgcac	aagggtcaagg	21480
ccagccggga	cgtcatcatt	gaccagctgc	ccgacctgat	ggggctcaaa	gctgtgaatg	21540
tggccaaggt	cgtcgggtgag	tccggggggg	cccaagccat	ggctcagcca	tgcaacttg	21600
catgaggagg	aagtgaacgg	tccatgcctg	ggcataagtg	ttgagctcag	gtgccccgac	21660
ctggggaagg	gcaggacagg	aaaggtgaca	gtatctggcc	aaggacagat	gggaagggac	21720
caaggagct	gattagggag	tggttatgga	ctaggaatgt	cggtaacaat	ggttagaaag	21780
tgactaacat	ttgttgagca	cctgctgtgt	gcccggccct	ggccgggagc	cttcgtgccc	21840
acagtgaacc	cgtctgcaaa	tgtagttcct	tgcctactc	gcactgggga	gcaggacgca	21900
gagccgtgca	tctcacaggt	gccaagctca	ggactccctc	ctgggtctgc	ctgggctggg	21960
ctgtgcttgt	tgcctctgtg	gcccacgcct	gtgcaccttc	cacctgaaag	ccaggatctt	22020
caggacgtc	cccgaggagg	tcggtgtctg	gcacaatgat	ttgtctcttc	ctgaaaaggt	22080
gacagagtta	cactggagag	agcagcatcc	aggtgcggca	gggacaggcc	tggggctcgc	22140
gggcagggac	tctgtgtcct	gccgggggtcc	cacactgcac	ctgcttgtca	gaggcactca	22200
gtcaatcttt	gctgatgaag	gatgagagga	cagaggacgt	gatgcttgct	gctgcattgc	22260
ctgcagtcct	gggtgagatg	cccgggttga	ctctgctgcc	cgtcgggtgg	atgtgatgtc	22320
agatcccccg	ctttaaaata	cgaggagct	gggaattgag	ggagcagggt	ggggcagaaa	22380
gcacagcccc	gtggaagcct	ggagctgagg	cagtgtgggc	gacctctgga	gcagtgaagt	22440
cttccttcat	ggccttcctc	gcacctgca	gtcctcatgt	aggggatgcc	atccatgaat	22500
ttagttttcc	cagcctcctt	taaaaacgcg	ttcatgctgg	ggccggggca	gtgcagtggc	22560
tcacatctga	aatcccacca	ctttgggagg	ccgaggcggg	tggatcatga	ggtcaggaga	22620
tcgagaccat	cctggctaac	aaggtgaaac	ccgctctcta	ctaaaaatac	aaaaaattag	22680
ccgggtgcgg	tggcgggcgc	ctgtagtccc	agctactcgg	gaggctgagg	caggagaatg	22740
gcgtgaaccc	gggaagcgga	gcttgacagt	agccgagatt	gcgccactgc	agtcgcagct	22800
ccggcctggg	cgacagagcg	agactccgtc	tcaaaaaaaa	aaaaaaaaag	aaaaaaaaaa	22860
aaaaattagt	ctgggtgtgg	tatcacgcgc	ctataatctc	actactcgag	aggctgaggc	22920
ggagaattgc	ttgaaccag	gaggtagagg	ttgtagttag	cccgtatcgt	accactgccc	22980
tccacctggg	caatagagcg	agactctgtc	tcaaaaagaa	aaaaaaaaaa	agaacattta	23040

tgccaggtgt	ggtggctcat	gcctgaaatc	ccagaacttt	ggaagactga	ggcaggagga	23100
tcacttgagc	ccagaaattt	gagagtgtct	tccctgggca	acatagagag	acctcatctc	23160
taccagaaaa	aaaaaaatta	gcccggcatg	gtggcatatc	cctgtggtcc	cagctactta	23220
gggggctgac	gtggcaggat	cacctgagtc	tggaggcaga	ggttgaagtg	agctgagatc	23280
atgccactgc	actccagcct	gggtgacaga	cagagaccct	gtctcaaaaa	aaaaaaaaaa	23340
aaaaagcatt	tactatccac	catggaaggt	gagactgacc	tgtgagtgat	tgttcaaaga	23400
acaaaaaata	aaccccgagag	ataagacaaa	aggggtgcctc	catgggggtg	tgatttaaag	23460
ctgagaaatt	gggcttcttc	cccctcccct	ctcaccctgt	ggtttgctaa	aggagatggg	23520
aaaaaggatt	cttttttttg	ctgaaatatt	taacactaaa	ttaaagccaa	ttttaacagc	23580
actttggttg	atgagtgaaa	ttaacagact	ggccaaaaat	aaacgaacgg	tctgtactat	23640
gtgaaaaaga	ggcagctttg	gccatgctgg	gccaatgtga	gttttcaggg	ttgctgggaa	23700
tgtctgtgaa	tcggaggaag	ggcctagctg	ggactctcag	gagccaaggc	cctgaggggc	23760
aacttgccctg	gtccctgccc	tgaggcgctc	actgctttct	tcctgggcca	gatcacaggc	23820
cgggaggctg	gaccactggg	ctggcactct	tgccgagctg	ctccctgact	tcctgaccat	23880
gctcctttca	gcagccttgc	tgcactttag	tttccttgaa	tgaaaaatgg	ggatgagaat	23940
agctcctacc	tccaaggtga	atggagttag	ttcggacagg	tgactccctg	ggaccagtgc	24000
ctggcgctg	acaaggtcca	gtcagagccc	gcactgctgt	tactgatacc	cttggctgta	24060
ccaggggaga	acttggttgc	cattgccagg	tgttctccca	ccacccccac	tactgtccct	24120
gtttgatgtg	tggcggaat	aaagctgtgc	acattggagc	ttttggcaca	tcctggcttt	24180
caggtgaaag	gtgctgtgtg	gtttgagggt	ttagcctggc	caaccagcc	atgaggctcg	24240
acctgacctg	ggggtgagtc	ctgagctcgg	caccctgag	ctgtgtggct	cacggcagca	24300
ttcattgtgt	ggcttggcgg	cacccttttc	cctgctgggc	tgttgatgtt	tagactggag	24360
cctctgtgtt	cgcttccagg	aaccaaccgg	tgtgcgga	ggaacggggg	gtgcagccac	24420
ctgtgcttct	tcacacccca	cgcaaccgg	tgtggctgcc	ccatcgccct	ggagctgctg	24480
agtacatga	agacctgcat	cgtgcctgag	gccttcttgg	tcttcaccag	cagagccgcc	24540
atccacagga	tctccctcga	gaccaataac	aacgacgtgg	ccatcccgt	cacgggcgtc	24600
aaggaggcct	cagccctgga	ctttgatgtg	tccaacaacc	acatctactg	gacagacgtc	24660
agcctgaagg	tagcgtgggc	cagaacgtgc	acacaggcag	cctttatggg	aaaaccttgc	24720
ctctgttctc	gcctcaaagg	cttcagacac	ttttcttaaa	gcactatcgt	atttattgta	24780
acgcagttca	agctaataca	atatgagcaa	gcctatttaa	aaaaaaaaaa	gatgattata	24840
atgagcaagt	ccggtagaca	cacataaggg	cttttgtgaa	atgcttgtgt	gaatgtgaaa	24900
tatttggtgt	ccgttgagct	tgacttcaga	caccaccacc	actcccttgt	cgggtgccctg	24960
ttgctcagca	gactctttct	tcatttatag	tgcaaatgta	aacatccagg	acaaatacag	25020
gaagactttt	tttttttttt	tttgagacag	agtcttactc	tgttgcccag	gctggagtac	25080
cgtagcgtga	gctcagctca	ctgcaacctc	cgcctcccag	gttcaagcga	ttcttctgcc	25140
tcagcctcct	gagtagctgg	gactacagac	atgcaccacc	acaccagct	aatttttttt	25200
atatttttag	tagagacagg	gtttcatcat	gttggccagg	ctggctctga	actcctgacc	25260
tcaggtgac	tgcccgcctc	ggcctcccaa	agtgtgaga	taacaggtgt	gagccaccgt	25320
tccgggcata	ggaaaacttt	ttgccttcta	aagaagagtt	tagcaaacta	gtctgtgggc	25380
tggccttctg	attctgtaaa	gaaagtttga	ttgggtggctg	ggtgcggtgg	ctcacacctg	25440
taatcccatc	actttgggag	gccgacgtgg	gcataccacc	tgatgtcggg	acttcgagac	25500
cagcctcacc	aacgtggaga	aaccccgctc	ctactaaaaa	tacaaaaaaa	aaattaaccg	25560
ggcatggcgg	cgctgcctg	taatcgagc	tactcaggag	gctgaagcag	gagaattgct	25620
tgaacctggg	aggcggaggt	tgtggtgagc	tgagatggca	ccattgcact	ccagcctggg	25680
caacaaaagt	gaaactccgt	ctcagaaaaa	aaaaagtttg	attggtgtaa	ccaaagcgca	25740
tttgtttatg	gattgtctgt	ggcagctttt	gttctgccga	gatgagttgt	gacagatctg	25800
tatgggctct	aaagcctaaa	acatgtgcca	tccgcccctt	tacagaaaaa	gtgtgctgac	25860
ctctgttcta	aagtattgga	caactacaat	gtttgtctat	ttattattct	atgatttggt	25920
ttctgctttt	tgttggtgtt	gttggtgttg	agataggggt	tccctctgtc	actcaggctg	25980
gagtgacgtg	gtgtaatctc	agctcactgc	agcctcgacc	tcctgggctc	tagtgatcct	26040
ctcatctcag	cctccctagt	agctgggact	acaggcacac	accaccactc	ctggctgatt	26100

tttttttttt	tttttttttt	ttgtggagac	aggggtttccg	catgttgccc	aggctggttt	26160
caaactccta	ggctcaaaca	cccacctcag	cctcccaaag	tgctgggatt	acaggcgtga	26220
gccaccatgc	ccagcctatt	ctactgtttg	tattacatag	ctttaaaaga	ttttttatga	26280
ctttaagtca	caagggttct	ttgtagaaaa	aaatatatat	ataggaaaagt	ataaaaagaa	26340
agtaaaaaatt	gtccataacc	tctccagcca	gagacgaccg	ttgctgacac	ctcagcatat	26400
tgccctttaag	tcttttttct	ctaagatagc	atctctcttc	atcacagtca	tatgctacgc	26460
agaattctgt	atcctgattt	tttcacttga	cattacaaca	ggatatttgat	ggcgctgtga	26520
caaactcctt	ggcacaatct	tttaaatgta	tgaataactc	cactgcacag	atgtttgctt	26580
ttaggcttaa	ctgttctttt	attttgctg	tgctgggttac	agccgggcac	agtggctcat	26640
gcctgtaatc	acaacacttt	gagaggggtga	ggcaggaggga	tcacttgagc	ccagaagttt	26700
gagaccggcc	tgggcaacat	agtgaagccc	catctctaca	aaaaactttt	ttaataagtc	26760
ggcgctagt	gtgcatagct	gtagtcccag	ccaccaagga	ggctgagttg	ggaggattgc	26820
ttgagcccca	ggaggttgat	gctgcagtga	cctgagatta	ctccactgta	ctccaacctg	26880
agcgacagag	caagacttgt	ctggggaaaa	aaaaaaaaaa	aatatatata	tatatatata	26940
tatatataca	tatatacata	cacgcacaca	cacataatat	aaaaatatat	atttataaat	27000
atataatata	taatataaaa	atatatatatt	ataaataaaa	tttataaaat	atattttataa	27060
gtaaatata	aatatataat	ataaaaaatat	atattatata	atatataata	aaatatataa	27120
tataaaaaata	tatatattata	aataatata	aatacatact	tataagtata	tattttaaaat	27180
atatgtaatg	tatatattttt	aatgtatgat	atataatata	cattttataaa	tacacattta	27240
tattattttta	tataaaatat	atataaaatc	tccaagttgc	tttttccaaa	aagggtgtctt	27300
gctgcatttc	aaacattcat	ttaaaaactt	gaatgctggt	gatctgggtcc	agaatgtggt	27360
cagtagctgc	tgccagtggc	caagcatctc	gggagatgtc	tacaaaacac	gctgggttctg	27420
gcctggcggtg	gtggctcacg	cctgtaatct	cagcactttg	ggaggctgag	gcagggtggat	27480
caactgaggt	ctggatttctg	agaccagcct	tgccagcttg	gtgaaacccc	atctctacta	27540
agaatacaaaa	aaaattagcc	aggcgtgggtg	gcatgtgcct	gtaatccac	ctacttggga	27600
ggctaaggct	ggagaatcgc	ttgaaccacg	ggggcagagg	ttgcagtga	ccgagatcgc	27660
accattgcac	tccaggctgg	gcaagaagag	cgaaactccg	tctcaaaaaa	aaaaaaaaaag	27720
atgctgggttc	ctaaaatgtg	gcccttttcc	tctcacctg	ctgccagacc	atcagccgcg	27780
ccttcatgaa	cgggagctcg	gtggagcacg	tggtggagtt	tggccttgac	taccccgagg	27840
gcatggccgt	tgactggatg	ggcaagaacc	tctactgggc	cgacactggg	accaacagaa	27900
togaagtggc	gcggctggac	gggcagttcc	ggcaagtcc	cgtgtggagg	gacttggaca	27960
acccgaggtc	gctggccctg	gateccacca	aggggttaagt	gtttgcctgt	cccggtgcgtc	28020
cttgtgttca	cctcgtatga	gacagtgcgg	gggtgccaac	tgggcaagg	ggcaggctgt	28080
cogtgtggcc	ctcagtgatt	agagctgtac	tgatgtcatt	agccttgatg	gtggccagga	28140
ctggtagggc	cctcagaggt	catggagttc	cttcgtggag	cgggtgctga	ggctgtatca	28200
ggcacagtgc	tggctgcttt	cacctgggcc	gtctcaccca	agtgtccatg	gagcctgcgt	28260
aggggtgggta	tctgtgtcga	ttttacagat	gcagaaacag	gctcagagaa	accgagtga	28320
ttccctaagg	tcacataccc	agttagagca	gagctgggcc	aggaagtgt	gtctcaggct	28380
cctgaccagg	tctccttget	ttgcactctt	gccccaaaca	tgatccagaa	ctgactttga	28440
ggtccccgga	cctcaggctc	ctccgaaatg	gcctcttgga	ggctgctgag	ccacagctta	28500
ggacccacct	cgagaggcaa	atgtgctttg	agctgccagg	cgtcctgggg	gccctgcctt	28560
gggcacgggg	ttcagacagg	cccagatgt	gtggggcgctc	tttctggact	tgagttttct	28620
tttctgtgtg	gtggacacag	tgctcacccc	ttaaagcacc	tgtgatgtgt	gcagagccc	28680
aatccctgcc	tgctgcctgt	tctgctaggg	aaggaaggaa	gacttcagga	tggcaggaca	28740
acagaaagag	gtccaggttt	tagagcaagg	gcaggtcaaa	cttagaaaat	tctggaatga	28800
ggatgtgcat	ttcctcttct	ggatctgcta	aaagaagagg	gaaggagggg	ctgctggggg	28860
aggagcccag	agccgagttt	acatccggat	cccgcaggcc	ctccctgcc	ctgaggtctt	28920
gttttgtgat	gtgcttgtgt	ccatcctggt	ttctgccgtg	tccccaacat	ccggccaagc	28980
ttaggtggat	gttccagcac	acactcacc	tgtctgtgca	cctgtttttg	tgtccgtaag	29040
tgggtattta	ctcaccttac	gagtgagcca	ctgtgggaat	tcaggagggt	ggcgagtgga	29100
ccacccctgg	agggatatgt	gtgtggcagg	ggctgagggt	ctgcctcttc	cctgcttctt	29160

gcgcgtggct	ttctccagga	cggggagggc	tgagctgaag	aggtggggac	agttgcgtcc	29220
ccccgccacc	cactgtcctg	cggtagagagc	agactcactg	agcctgccct	tctcccttgt	29280
gccttccagc	tacatctact	ggaccgagtg	gggcggcaag	ccgaggatcg	tgcgggcctt	29340
catggacggg	accaactgca	tgacgctggg	ggacaagggtg	ggccggggcca	acgacctcac	29400
cattgactac	gctgaccagc	gcctctactg	gaccgacctg	gacaccaaca	tgatcgagtc	29460
gtccaacatg	ctgggtgagg	gccgggctgg	ggccttctgg	tcatggaggg	cggggcagcc	29520
gggcgttggc	cacctcccag	cctcgccgca	cgtaccctgt	ggcctgcaag	ttccccaacc	29580
tggcaggagc	tgtggccaca	cccacgactg	cccagcagcc	tcaccctctg	ctgtgggagt	29640
tgtccccgtc	cacccttggg	tgcccttctg	gcagttatgt	cgggagaggc	tctggtgaca	29700
gctgtttcct	gtgcacctgc	tgggcactag	gtcccagcta	atccctgtgc	caggactcta	29760
atttcaccct	aacacacatg	gtgggttttca	ttgctgggga	agctgaggcc	tgagcacatg	29820
acttgccctta	ggtcacatag	ctggtgagtt	caggatcccc	cagagatacc	agggccagca	29880
ctcgatcccc	accagccct	gaacccacc	atgtgctggg	attgtgctgg	gagtgtccac	29940
acgcctggga	ccccagggct	ggtgctctca	tctccttttt	ccagatcatg	agaatgaggc	30000
tcagggaagt	ttgaaaaaaa	cctatcccaa	gtcacacagc	aacaggagca	ggatttgaac	30060
ccagaaaagg	ggaccgcaca	ctctgttctg	ctagagtagt	tagctgtcct	gggtgatatg	30120
gcaggtgaca	ggggcaactg	tgcttaacaa	aggaaccccc	atccccctg	ccaagttggg	30180
agactagaag	gtcaggggca	gaagctctga	agggccaggt	gcagtggctg	acacctctaa	30240
tcccagcact	ttgtgaggcc	aaggcgggca	gatgatttga	gcccaggagt	tcaagatcag	30300
cctgggtaat	gtagtgaagc	gccatctcta	caaaaaaatt	ttttaaaaat	tagctgggca	30360
tggtggttca	tgctgttagt	ccaagctact	tggtgggctc	aggtgggagg	attgcttgag	30420
cccaggaggt	tgaggttgtg	gtgagctgtg	atcatgccac	tgactccag	cctgggcaat	30480
agagtgaagc	cgtctccaaa	aaaaaaaaaa	gaagaagaaa	aagaagctct	gaggctccaa	30540
gtccccaggc	acccttggc	ttgagggcag	acaagggagg	agagggtcac	ctgggcagcc	30600
ctgacttttg	tccctggca	aagggacctt	cagtgcacct	ggccctagga	gagcctctga	30660
gcacgtcagc	catgtcgaa	cgtcaggaa	gggcagcaag	aatttggtct	ctgacctctg	30720
cctctcctac	tcgccatctg	cactgggtgt	gggtgtgccc	attttacaga	tgaggaggct	30780
ggggcatcga	ccagctgaat	gccttgtccc	aggtactgcg	taggcagagc	tggcagttga	30840
accctgtgtc	ctggttgtcg	ctgggggtgg	gctgcacctt	gacttgtgag	gccagtagca	30900
aggtttgcac	gtgacttcgt	gaccgtcacc	cagctctgca	gcacatcccg	tgaccagct	30960
catccaggcc	gcattgcaaac	ctggtgccag	gcgagaaacc	agtcaccgca	cagctgtggt	31020
tgcctgaaat	gattaagctc	attaatcacc	cggagtgag	gacagactca	gatgaaaacc	31080
agcaaaagcc	ctggaaaactc	atgtgacctt	gccaatgagg	gcggccatgt	gcattgcagc	31140
ctggccgtca	ctcctcggtg	cgtgttttgg	acttaaaccgc	tccggatgtt	tactgagtgc	31200
ttgattaata	acatggaagg	cctggtctca	ttgctgtggg	agtgaaggat	gcacagccag	31260
gcctgacatg	atgagaacaa	gaacctggag	tctcgtgccc	tgggtggtaa	tccctggcct	31320
gccacttagc	aactgtgtga	ctgtagccag	gtcacttaat	tttgctagat	cctgcctgcg	31380
cttcagtga	tcttgcctgg	tttccaaggt	ggccaaacac	tttaaggcat	tcatgtggct	31440
gctaggctgc	aggttgaac	cctggctcac	cccgcagggc	gccgtgtgct	ctgtggcctg	31500
gctgtgcctt	tgctgacacc	gtgccctgtg	gtgttcatgc	aggtcaggag	cggttcgtga	31560
ttgccgacga	tctccgcac	cgttcggtc	tgacgcagta	cagcgattat	atctactgga	31620
cagactggaa	tctgcacagc	attgagcggg	ccgacaagac	tagcggccgg	aaccgcaccc	31680
tcatccaggg	ccacctggac	ttcgtgatgg	acatcctggg	gttccactcc	tcccgccagg	31740
atggcctcaa	tgactgtatg	cacaacaacg	ggcagtgtgg	gcagctgtgc	cttgccatcc	31800
ccggcggcca	ccgctgcggc	tgccctcac	actacacctt	ggacccagc	agccgcaact	31860
gcagccgtaa	gtgcctcatg	gtcccccgca	cctcactccc	togttagatc	aggtgtgttc	31920
tgggagctga	cgtgaaagg	agcttctcat	ctgggggttc	tgggtgtaca	tagatgggtg	31980
ggtaggttgt	gcactgcaca	agctgcatga	tgctacctgg	gggtccaggt	ccaggctgga	32040
tggacttgtt	gcttcatcag	gacatagata	aatggccaaa	actcctcagc	tgggaaggtcc	32100
tgggcaggat	ctttgggtgt	gaaaaccagt	cacaggggaa	gggtgcttgc	tcatactgcc	32160
agcacagtgc	tgagtgcctt	ccatagcgct	cgtttactcc	tcaagcctgg	aggggtgggga	32220

gtagcatggt	cccatttcac	gtacaaggaa	cccgatgcac	agagaggtgt	ggcaacccat	32280
ccaaggccat	acaactgggg	tgggttgagc	cggggttgac	tgtggcaggc	tggctcaaga	32340
gtccctgctc	ctgaaccctt	gccaggcagc	ctggcatcag	ctcggggaat	ttttgccctg	32400
acccttgga	gcaagtgggc	ctctttgttc	tcatgtcagt	gatgagaaga	gtgactttcc	32460
tatggccctt	ctggagtaca	ggtgtttcct	gttggcgggc	tcttcccca	tgacatcagc	32520
agcgagctgg	ttatgattcc	ctacgcagaa	cttgatagtt	tataaagctc	tttgtcatcc	32580
aggccccgtt	ggagtctcac	gcagacctgg	tgcaggcggg	ggctggtcct	gcctgtccca	32640
gctgcatgga	tggggaactt	gaggcttgca	aaggtttaagg	ggctgttcga	ggcccagget	32700
ggcaggagat	gggcctgggc	cagagtctgg	gacttcccat	gcctgggctg	tctttggtcc	32760
tggtgtcac	catccctccc	tggggccatg	accttagaga	gccaaatgga	ggtgcaggta	32820
acccacggca	aggaggggtt	gccatgactc	agagtccccg	tcctgtggcc	ggcagtacct	32880
ggtgcaacga	cttgattttc	agaccagcca	ctgtagcccc	ctgacggtgc	gctcgaagtg	32940
ccacagcttc	tgaagccagg	caggactcag	gccaggagac	tctgttagct	gttgagaggg	33000
agaggccaac	ggatgttctg	gttctgctag	agagctgggt	cttcggatcc	tggtagcagt	33060
gcactgagag	gaggcccagc	ttgattctgg	ggctgccttg	tggtagcatg	tgctgtcac	33120
tgacaccctc	gaggagtgtc	ttctctcggg	cttggtgact	gtgcccgggt	ttccgcagtt	33180
cactggtgca	cacataggca	catagcaaac	cgcacacaca	gtcgtgggta	tgagtttcac	33240
tacattccac	caccagtgtt	cactaccatt	acctgccttc	cgtcttaagt	gttcatcatt	33300
taaaaaataa	tttattgggc	tggacgcggg	ggctcatgac	tgttatccca	gcactttggg	33360
aggctgaggg	gggcagatca	cctgagggtc	ggagttcaag	accagcctgg	ccaatatggt	33420
gaaactccat	ctctactaaa	aatacaaaat	tagctgggca	tggtagggca	tgccataaat	33480
cccagctact	caggaggtctg	aggcaggaga	atggcgtgaa	cccagagagg	agagcttaca	33540
gtgagcccag	atagcaccac	tgcagtcacg	cgtgggcaac	agtgcgagac	tccatctcaa	33600
aaaaaaaaata	aataaataaa	agaaaaataa	atztatgatc	tatttcaaaa	ataacacatg	33660
tactttgaaa	cagcagagac	acatatgaca	cggagaatga	aattccccc	agcgcacccc	33720
caagagacag	ccctgggtccc	cccgtctttc	ccgtggacct	ccagcggggc	agatgctgag	33780
ccgcctgttg	tgcagtggcg	tgctatcccc	tcctccagct	cctctgtggc	ttacagacac	33840
ccacctgcag	ccctgtcttt	gcctcctcta	gcgcccacca	ccttcttgct	gttcagccag	33900
aaatctgcc	tcagtcggat	gatccccggc	gaccagcaca	gcccggatct	catcctgccc	33960
ctgcatggac	tgaggaacgt	caaagccatc	gactatgacc	cactggacaa	gttcatctac	34020
tgggtggatg	ggcgccagaa	catcaagcga	gccaaaggac	acgggaccca	ggcaggtgcc	34080
ctgtgggaag	ggtgcggggg	gtgcttccca	aggcgctcct	cctgtctggt	tccaggtgc	34140
tgcccctgtc	cttagcagag	ggaggaaaca	gaggatggct	ctgggtgaat	gatgacttgg	34200
gcttcgatta	tgtagtcaca	gggtatgacc	ctgagatgcg	tggaaacccg	agactgtgat	34260
tatatgtaga	aactgggttt	ccccgttggt	taagtagtca	tggtaggggt	agaccccaca	34320
ggacttttgt	cttttcaaga	aagaaaatgg	tcgtgtgtca	tgcaggggta	gttggtactg	34380
gttaatccag	gtttatcctt	tattttgtgg	gaactgtaca	gtcatttctg	ctacaatgct	34440
gtatatgtc	ttctgaaaga	cacctatgca	aaatcgcaca	gtaaaaatga	cacaactcat	34500
agggaaagcg	gggccagggc	acagccctca	aaatctccat	caatgacatg	taagaaaaga	34560
gaggaacctg	ggaaatagca	aagtgccttt	tgcacattaa	atggttagct	atatcccaca	34620
atactgtgca	ttcgtaaacg	ttaatgctgc	aataaatacg	gcacttcacc	ttgggaagat	34680
ctggagttgg	cttatgagtg	tggaaagggtg	tagcgcatag	gtttttgtga	aacactggaa	34740
ggaggattgt	gggaaatcaa	atggaaagtt	ctcaccacag	gcgtggagaa	gagtgggtca	34800
tggccccagc	agtgcgcca	gggaggtcag	agacggagggt	gtgtgtgtgg	gtgtgacctt	34860
gcgcagttcc	ctgcggctg	tagttttttg	cattcgctta	atgtttctcg	tggaggaaat	34920
tgtgcatgag	caaagtgtga	accgtgctgt	gctcaaattg	tcctaataca	tcattgcatt	34980
ggaacagatt	ggcttttttt	tttttttttt	tttttttttt	tttttgagat	ggagtctcac	35040
tctgtcacca	gcctggagtg	cagtggcatg	atcttggtct	actgcaacct	ttgcctccta	35100
tgttcaagtg	atcttctctg	ctcagcctcc	tgagtaactg	ggattacagg	catgagccac	35160
cgcggccggc	cagatttgca	tttttgaaac	aactgctagg	ctgggcggcg	tggctcacac	35220
ctgtaatccc	agcactgtgg	gaggccgagg	caggtggatc	acctgagggt	aggggttcga	35280

gaccagcctg	gccaacatgg	tgaaaccccg	tctctactga	atatacaaaa	atcagctggg	35340
tgtggtggcg	ggtgcctgta	atcccagcta	ctcaggaggc	tgaggcagga	gaattgcttg	35400
aaccaggag	gcagaggttg	cggtgagccg	agatcacacc	attgcactcc	agcctgggca	35460
acaagagcaa	aactccatct	caaaaaataa	aaaatagaaa	aacaagtgct	gtagcggaag	35520
tgagcacttt	gcggagtcag	gcttgtgtgg	cctgttccac	aaatgatgtg	ctcacggtgg	35580
cctcaggccc	acctggagtc	tgagcatgg	ggcacaacag	gttcattagt	gtagaattcc	35640
aggacaggcc	tggctcctaa	gcagccttct	tttacaacaa	ctgcagagcc	cgctgtatc	35700
ctagcacttt	gggaggccga	agtgggtgga	tcacgaggtc	aggagttaa	gaccagcctg	35760
gccaacatgg	tgaaacccca	tctctactaa	atatacgaaa	attagctggg	tgtggtggca	35820
cgcgctgta	gtcccagcta	ctcgggaggc	tgaggcagaa	ttgcttgaac	ctgggaggtg	35880
gaggttgacg	ggatctgaga	ccatgtcatt	gcactccagc	ctgggcaaca	gagcgagacg	35940
ccatctcaaa	aaaaaaaaac	ctacagagcc	acacggcctc	tttctccacc	gagtgttggg	36000
gtgggagctt	gtgttattgt	ggtgaaatct	tggtactttc	ttgaggcaga	gagaggctga	36060
gcgcctggag	agactttcac	atgggtcgcc	atgtccgccc	tcggtttcgc	tgttgtgtct	36120
cccatctgaa	ggctggtgcc	gtccagacag	gctggacgcc	cctttccacc	agatccttcc	36180
tcccgcagca	gtttctagtt	acgttgta	gtgaggtctg	tgtccttggg	tgatggcaaa	36240
agtcagccga	attgaaatcc	agagccatgc	ctggctccct	ggagcttctc	tcctgggcag	36300
ctgtgatcat	tgcctctgct	gtggtgtggg	tggtggaaat	ggattccttt	catcttgctt	36360
gctacagggtg	actgtcacgt	ggagtccttt	ggagagaggg	acgtgttaat	tgatggatgt	36420
ggctcccatg	ctgagaaagc	tcctgggcgt	acattgcctt	agagtttcat	tggagctgcg	36480
ttcttttatg	gtgtctgcta	ggcagaagtg	atgaagactt	ggaagaaaac	ccagaagggt	36540
ttccacttaa	tttggaat	gtgcttttcc	cctcctgtgt	cctttgctaa	ggccagcct	36600
cctgcagcct	ccccgctctg	tggactctgg	ccttgattct	ttattaggag	ttccctgct	36660
cccccaaaag	atggtgtcta	aattatcatc	caattggccg	aggttttgtt	ttctattaat	36720
tgtttttatt	ttttattgtg	gtaaatttat	ataacataaa	atttgccatt	ttaattgttt	36780
tgttattgtt	gtttttgaga	cagggtctca	ccccagtgcc	caggctggag	tgcagtgggtg	36840
cgatcatggc	tcactgcagc	ctcagcctcc	agggtccag	tgatcctctc	acctcagcct	36900
ctctagtagc	cgggactaca	ggcatacact	accacatctg	gctgattttt	tgtatttttt	36960
ttttattgta	gagaccgcct	atgttgccca	ggctggtctc	aactcctgga	ctcaagccat	37020
cctccacact	cacctccca	aagtgtctggg	attacaggca	tgagccacaa	caccagcca	37080
ttttaatttt	tttttttttt	tttgagatgg	agtctcactc	tatcgcccag	gctggagtgc	37140
agtggcgtgg	tatcaactca	ctgcaacctc	tgcctcccag	gttcaagcga	ctctcctgcc	37200
tcagcctcct	cccgagtagc	tgggattaca	ggtgcccac	actatgcctg	gctaattttt	37260
gtatttttta	gcagagacgg	ggtttcacca	tgttgccag	gctggtcttg	aactcctaac	37320
ctggtgatcc	gcccgcctcg	gcctcccaaa	atgctgagat	tacagggtgtg	agccaccgtg	37380
cccggccttt	ttttgttttt	gagacagggg	cctgcccgtg	caccagact	ggagtgaat	37440
ggtgggctct	tggctcactg	cagcctccgc	ctcccaggct	caagttgtgc	acctccacac	37500
ctggctaact	gtatttttatg	tagagacaga	tttcaccatg	ttgcccaggc	tgggcttgaa	37560
atggactcaa	gcagtcaccc	cacctcagcc	ttccaaagtg	ctgagattac	aggcgcgagc	37620
caccgcaccc	agccattttt	acctattctg	cagttgacag	ttcagtggca	ttcagtcagt	37680
tcacgaggta	accatcactg	ccattcatct	ccagactact	tcaccttctc	ggcagatgtc	37740
cgaaactgtc	cgcattgaac	acactcctca	tctccctctg	acagccacca	ttctactttg	37800
tatctctctc	tgccttctct	aggtacctca	tgtaatgtga	attataccaa	tatttgccct	37860
tgtgtgactg	gcttctttca	tgtgacatgg	tgtcctcaag	gttcactctgt	gttatagcct	37920
gtgtcagaat	ttccttcctt	aaagcctgaa	taataaccgc	ttgtaaaggc	tgggcgcggg	37980
ggctcacacc	ctctaatecc	agcatttttg	gagtcagagg	tgggcagatc	acttgaggtc	38040
aggagtttga	gaccagcctg	gccaacatag	tgaaaccctg	gctctactaa	aagtacaaaa	38100
ttagctgggt	gtgggtggcg	gcacctgtaa	ttccagttac	tcaggaggct	gaggcaggag	38160
aatcgcttgt	acccgggagg	cagaggttgc	agtgaaccaa	gattgtgcct	ctgcagtcca	38220
gcctgggtaa	cagagtgaga	cttcctgtct	caaaaaaaaa	aaaaatcatc	ggatggatgg	38280
acgggaccact	tcttgttatt	tatccatcca	cgggtgctag	gtttcttcca	cctttggttg	38340

t c g t g a a t a a	g g c c a c t a t g	a a c a t t t c c t	t c c g t g g t g a	a g g t t t t g t a	c t a g t g a g g a	38400
a a a g g c g t g t	t t g t g g t g t t	g c a t a g g a t t	c t g g t a a g a a	a g t t t g c a c t	a a c c a t a a g t	38460
a t t t g t a c t a	c a t t a a a a t g	a a a g c t c a g g	g g c c g g g c g c	g g t g g c t c a c	g c c t g t a a t c	38520
c c a g c a c t t t	g g g a g g c c a g	g g c g g g c g g a	t c a t g a g g t c	a g g a g a t c a a	g a c c a t c c t g	38580
g c c a a c a t g g	t g a a a c c c c g	t c t c t a c t a a	a a a t a c c a a a	a a a c t a g c c a	g g t g t g g t g g	38640
c g g g c a c c t g	t a g t c c c a g c	t a c t t g g g a g	g c t g a g g c a g	g a g a a t g g c g	t g a a c c c g g g	38700
a g g c g g a g c t	t g c g g t g a g c	c g a g a t c g c t	t c a c t g c a c t	c g a g c c t g g g	c a a c a g a g c a	38760
a g a c t c c g t c	t c a c g c a a a a	c t c t g t c t c a	c g c a a g a c t c	c g t c t c a a a a	a a a a a a a g a g	38820
t t c a g g g t t t	a t g a a a c t g g	c c a g c c g c g t	a a a g t t t g c t	g t g t t g t t t t	t g t g c c c g g g	38880
a g g a g t g t g g	c c a g g g t g t c	a c g t c a c a c a	g t a c a c g t t t	c t c a g a t g g t	g g t t c t c c a g	38940
a c t g c t g t c c	c a a a g t c t g t	t t t t g c a t c t	g g t t c c c a c a	g a c c c a c c c t	c c a c g g t g a g	39000
c c t g a t t t t g	g c c a g g g t a g	c t g g a a t c t t	g c t t g t c t t t	c a g c c c g g c a	g c t g t a c c a g	39060
t c c a g g g t c c	a c a g c t a g t g	g c t t t t a g g a	a g g a a t t t g t	t c a g t t g g c t	t t g a c a c a t g	39120
g c c c c c t a g g	g t c c a c a g c t	c t g t a g t g a t	g t g g a t g t t g	t t a t c t a c a a	a g a c a c a t g a	39180
t c c t t c g t g t	c c a g a t g a a a	g t g a t g a t g t	c t t t g c a g c t	g c c c a g c a a g	g c t g t g t g t g	39240
t g t g t g t g t g	t g t g t g t g t g	t g t g t g t g t g	t g g t g t g t g t	g t g g t g t g t g	t g t g t g t a t g	39300
g g g g a g g g a g	g c a c c c t t t c	c a t c t g g g g g	t g t g t g t g t g	t g g g g t g t g t	g t g t g t g t g t	39360
g c g c g t g t g t	g t g g t g t g t g	g t g t g t g t g t	g t g t a t g g g g	g a g g c a c c c t	t t c c a t c t g g	39420
g t c c a a g a g a	c t g g g c c t g g	g g a a g a c g c t	t c t t t t t a t c	t a c t t a g a g a	c t t t g t t t t a	39480
t t t g t a t t t t	t t t g a g a c a g	g g t c t c a c t c	t g t c a c c c a g	g c t g g g g t a t	g g t g a t a t g a	39540
g c a t a g c t c a	c t g c a g c c t c	g g c c t c c c a g	g c t g a a g c g a	t c c t c c c a c c	t c a g c c t t c t	39600
g a a t a g c t g g	g a c t g t a g g c	g t g c g t c a c c	a t a c t g a g c t	a t t g t t t t t t	t t g t t t g g t t	39660
g g t t t a a t t t	t t t t t g a t a c	a g a t g g a g t c	t t g c t a t g t t	g c c c a g a c t a	g t c t c a a a c t	39720
c c t g a a c t c a	a g t g a t t c t c	c c a c c t c a g t	t t c c c g a c a t	t c t g g g a t c a	c a g g t g t g a g	39780
c c a c t g c t g t	c t c c c t g t t t	t a t t a a c t g c	t g a a a g a c c t	a g a t a a a g a a	a g t c t g a a a a	39840
g a c t t a c t a t	c a g a g c a c c a	t c c t a a g a t g	a t t c c c t c t g	a c t c a a t g g a	g a g g g a g g g g	39900
a g c t t t t c c t	t c a g g c c t g g	g t g g c a g g a g	c c c a g g t g c t	c c a g g c c c c a	t t t g c c c c a g	39960
g c c a a a t c a c	t c g g g a a c t t	g g a t g c a g c t	g t c t t t c a g g	g t a a c c c a a a	g g a a c c a g a t	40020
c c c c g c a g g c	a g t a g g c t t c	t g g g c t g t c c	t c t c c t c c t a	c g t c a g c t c a	g t a a g a g c c c	40080
t t c g a a g g g a	t g c t g t g t c g	g a g g c c c c a a	a a g c c c a g g c	t c a t c c c t g a	g a t g c a c a g g	40140
g t g g g c t g g g	c t t a g g c a g c	g c t c g a g c a t	c t c c t g g a c g	g t g a c c c c a g	a g a g t g t g g a	40200
g a c g g a g a g t	c c t t g a g a g t	c a c t g a g a g a	c g t g g c t g c c	c t g c c t t c c c	a a g a g g g g c t	40260
c t g a g t c a t t	c c c c a c a c t c	a c c t g c c c c t	a c c c a c c c t c	a c c t g g c c c c	c a g c c t c a c c	40320
t a c c c c c a c a	t c t g t a c c g a	t c c c t t t a c c	c g c a c c t t c c	c t a c c c a c c c	t c a c c t c c c c	40380
t g t a c c t t c a	c c t c c c c c a c	t c a c c c g c c c	c t g c a c c c t c	a c c t g t c c c c	c a c c t t c a c c	40440
t a a c c c c c a c	c c t c a c c t g c	c c t c c c c t c a	c c t g g c c t c c	t t c c g t t g g g	g a a g g g g t t g	40500
t a a g g g g c g g	c c c c c a a a c t	g t c t g t c c t g	g t g c c c t g c a	g a g a a a a c a g	t a c g t g a g g g	40560
c c g c a g t c c a	a a a g c t t g a g	t c c t g g a a g g	t g g a g g a g a c	a g g g a t g t g t	t g g g a a g g g c	40620
c c c a t g g t c t	t g g a t c c c t t	c t c g a c t g t c	a a t g g g g c c t	t c a t g g g a g c	g c c a g t c t a g	40680
t g a t g c a c a g	c t g g g t g c c c	g g c g g g t g g c	t g a g g a g g c c	t a a a g t c c g a	g g c g g c a a g a	40740
g c t c t t c c a g	a g g c t g t t g t	c c t a a t c g c t	c t g g c a t a c t	c a g g c g g g c a	c g t a g t t a g g	40800
a g c t g a t t g g	a g a g g a g a g a	c c c c c a c a c c	a a t a c t g g g a	t t t g a c t t t c	a g g c t a a a c t	40860
t g a g a a g t g t	g g c c t c t g c t	g t c c t g c c a g	a g c t c t c c a g	c c a g t g c c c a	g g g c t c t c c a	40920
g c c a g t g c c c	g g g g t c t c c c	a c c a g t g c c c	g g g g t c t c c c	g c c a g t g c c a	g g g g t c t c c g	40980
c c a g t g c c c a	g g g g t c t c c g	c c a g t g c t c a	g g a g t c t t g g	t t t c t t t g t c	t t a c a g c c c t	41040
t t g t t t t g a c	c t c t c t g a g c	c a a g g c c a a a	a c c c a g a c a g	g c a g c c c c a c	g a c c t c a g c a	41100
t c g a c a t c t a	c a g c c g g a c a	c t g t t c t g g a	c g t g c g a g g c	c a c c a a t a c c	a t c a a c g t c c	41160
a c a g g c t g a g	c g g g g a a g c c	a t g g g g g t g g	t g c t g c g t g g	g g a c c g c g a c	a a g c c c a g g g	41220
c c a t c g t c g t	c a a c g c g g a g	c g a g g g t a g g	a g g c c a a c g g	g t g g g t g g g g	g t g c t g c c c g	41280
t c c a g g c g t g	c c c g c c g t g t	c t t a t g c c g a	a t g c c a g c c t	c t c a c a g g c t	g g g g a g a c t t	41340
t c c a c c t g g g	g a t c c a a t g g	g t g g c t t t c c	a g g g t c c c a a	a a g c a a a c a c	a g g t t t t t c a	41400

cagcccgtcc	gggaaagcag	aaagcccca	ggggctggaa	ggggaaaggg	ggagctctgc	41460
tgagaggtta	caaggcagcg	ctggccgacg	ggagttgcag	ttgatagggt	ttgtatcatc	41520
cttgttaaac	ttgaaccctg	tgcagaaatc	ccttccacgg	catgggggct	gcctgttgac	41580
tcgtcctgt	tccaccacag	ggagctcctg	ggcttcttcc	tcccagaggc	ccccgacgct	41640
cccacctgtt	ggtcgtcaga	gcttctgggt	ggtgggaagg	caccagggac	cttgagggtct	41700
ccagagagaa	aagccagggg	aagagggaga	ccgaaaccca	tgtgacatga	aactcaggct	41760
ccaaactgag	cacgggaacg	tttggggaca	ggagcgcgat	ggccttcctc	agatagctgg	41820
ggggctggca	tgaagacggg	agctacagcc	agcacaggtc	ctgggcccgg	agcccagaga	41880
ttgagccctg	actctgtcac	ttactggcca	cgtgaccttg	ggcgggtggc	atagcctctt	41940
ggagactcag	tttctcatt	ggtaggagt	acggccacag	tgggtcggcc	tctgcagcac	42000
acggggggct	cgggtggcg	aagccccggg	tctataaggc	ggctgtgcag	gagccagccg	42060
agctggtctc	ccaacagcca	gggctccggg	gtccttagca	gctgtggggg	gcctgcacct	42120
gtttcccatg	gctgctgtca	gaaattacca	gaagccagg	ggctgagagt	aatggacact	42180
tgttctctca	cagttcctga	gggctgaagc	ccgagatcga	ggtgtgggca	gggcccctgc	42240
ccctctgaag	gctctgaggg	aacctttggg	cttctggtgg	ctccaggcac	cccttgacct	42300
gtggtcctgt	cactccagtc	tctctgtctg	gctgcacatg	gcgtggcctc	ttctgtacca	42360
ttgaaggaca	cttcagttgg	atthagggcc	tacctcacc	cattgtggtc	gtatcttgat	42420
ccttcatgac	atttgtaaag	accctgcttc	caaataagct	cacattctga	ggttctgggg	42480
tgagcgggaa	tttgagagag	attgttcaac	tagtatagaa	tgtgacctgt	cagcctcggg	42540
cagccctgag	aggcaggggc	tttccacagc	ccagctgggt	gccctgggct	ccgtgctgtc	42600
cgaggagacg	ccatccccac	accgctcctt	caccgcgcac	cctcccgcag	gtacctgtac	42660
ttcaccaaca	tgcaggaccg	ggcagccaag	atcgaacgcg	cagccctgga	cggcaccgag	42720
cgcgaggtcc	tcttcaccac	cggcctcatc	cgcctgtggg	ccctggtggg	agacaacaca	42780
ctgggcaagc	tgttctgggt	ggacgcggac	ctgaagcgca	ttgagagctg	tgacctgtca	42840
ggtacgcgcc	ccggggcctg	ccctaaccgc	agacaccgcg	ccttcattgt	cagtaatggc	42900
agcagctgcc	acattgtccg	agacctgccg	tgagcccagt	gccgcgccag	gggctttgtg	42960
tgtagcgtgt	tttgtctca	cactgacagc	tgtaggctgg	ggttctgagt	gagccccaca	43020
gggcagaggc	agaaaatgag	tctcagagag	ggtgagcgag	ctgcttgggg	ccccacagca	43080
ggagatggag	caggactgca	gcctagcctc	tgccccagc	acctgcgcaa	gaagctgtct	43140
tgtctgggac	tgtgttaggc	tgcgagggct	ggagagaaat	gagagttggg	gcttagagag	43200
ggggcgcagg	tccccatggc	ttttctctt	atgatgaggt	agatgggtga	agggaggggc	43260
catgcttgca	ggggccagtg	accgaggccc	gccgttggaa	ctgatggcct	tcatcccag	43320
cccagcccag	gtgggagcag	ggctttccga	gggcttgtct	tgggtcggcc	tgcttccagg	43380
gactctgctg	cagctcccac	ccctgtccaa	agcatggaat	ccccaggct	ccctggcagt	43440
cctgtcaacc	tctgtcctcc	caagctgagt	gtggggcaag	ttctggaggt	cagcactgct	43500
cagggggggc	cacgggctgc	ttgcaggggc	caaccgcctg	accctggagg	acgccaacat	43560
cgtgcagcct	ctgggcctga	ccatccttgg	caagcatctc	tactggatcg	accgccagca	43620
gcagatgac	gagcgtgtgg	agaagaccac	cggggacaag	cggactcgca	tccagggccg	43680
tgtcggccac	ctcactggca	tccatgcagt	ggaggaagtc	agcctggagg	agttctgtac	43740
gtgggggctg	gcagtggggg	gggcaggggt	gcctctaaac	ccgaccctg	gaggaggctg	43800
gaggccagtg	caagatcctg	tgtggcctca	gccaggcggt	ggtctctgcc	agatgccaac	43860
tgttgccgc	tggggttcag	cgacatgtcc	gaatgtccc	aggcctctga	ggttgttttc	43920
ttttgcccga	gaacaaatca	ccacgaacag	cgttttaaga	caacaccaac	tctttttttt	43980
tttttttttt	tgagtcagga	tcttgcctct	ttgcccaggc	tggggtgccc	tgggtgaaac	44040
acagttcact	gcagcctcga	cctctgggct	taattaagtg	aacaccttgc	ctcagcctcc	44100
caggtagctg	ggactacagg	tgggcaccac	cacacctggc	taattttttt	ttgtagagac	44160
ggggtttccc	catgttgccc	aggtggtct	gcaactcctg	ggcacaagct	atctgcctgc	44220
tgtggcctcc	caaagtgtca	ggattatagg	tgtgagccac	tggcctgaca	accccacgg	44280
attgtctctc	agttctgtaa	ggcaaagtcc	aggcacagcg	tggctcacct	gggttctctg	44340
ctcaggggtct	cacggggcca	gaatcaaggt	gtcaggaacg	ctgggcccctc	agcggaggct	44400
ctgtggagaa	attagcttcc	ttgctcactc	agcaggtagc	agttgtggga	tcgaggttct	44460

gtttttctctc	tggttatttg	tgggggacca	ctctcagctc	ctagaggcca	ccacaggtcc	44520
ttgccccgtg	gccctctctg	cctcagcagt	gggggctccc	tgcgtcagtc	cctcccacac	44580
cttgagtctc	tctgatttgc	ttctaaaggg	ccctgtgatt	cggtcagcc	accttttagat	44640
taggttagcc	ttccctttga	tagactccaa	gtcggctgat	taataacott	aatcacatct	44700
gcagaatccc	ttctgccaca	taaggctcatg	acgccgtgct	ggggactggg	gtgggaaatt	44760
acgggggtcat	ttaggattct	gcctgccact	gccttgctgt	gtcccagggc	ttgggggagg	44820
ggcctccaca	gctgggacca	cagtccttcc	ttccctccat	ggtaaccatc	tgaggattac	44880
ttgagaccag	cctgggcaac	atggtgagaa	cccatcccta	caaaaaatac	aaacaaaaag	44940
ggaccaggct	gggcttggtg	gctcatgcct	ataatcccag	cactttggga	gaccaagggtg	45000
ggctgatcac	ttgaggttgg	gagttcgaga	ccagcctgcc	caacatagtg	aaatcccgtc	45060
tctactaaaa	atacaaaaat	tagctgggtg	tggtggcagg	cgctgtatt	cccagctact	45120
ggggaggctg	agggtgggaga	attacttgaa	cctgggaggc	ggaagttgca	gtgagccaaa	45180
attacgccac	tgactccag	cctaggcaat	agagtggagac	tccgtctcaa	aaaaaaaaaa	45240
gggccagggg	tggtagtgc	aaagagaccc	tatcccaaaa	aaaccgaaca	ctgaatcctt	45300
gagactgagt	aaggacactg	tgaaattttt	ctgggtgggg	cagggaacag	agcgtcttct	45360
gtcattttct	ccacctgggt	gtggtcagct	ctccctccaa	gctgcctcct	cttcttctca	45420
ttgtccgggt	gttgacaca	tttggttaac	tgatagaaat	aacgcgagtt	cccagggact	45480
tggtccattt	gctattttat	tttattttat	tttattttat	tttattttatt	tattttattta	45540
tttattttatt	tattgagatg	gagtttcgtt	tttgtcgccc	aggctggagt	gcagtggcgc	45600
gatctcgggt	cactgcaacc	tctgcctccc	aggttcaagt	gattctccta	cctcagcctt	45660
ccaagtaact	gggattacag	gcacccacca	ccataccagg	ctaatttttt	tgtatttttta	45720
gtagagacgg	gttttcgcca	ttttgccccag	gctggtcttc	aactcctagc	ctcagggtgat	45780
ccacgcacct	cggcctccca	aagtgtctggg	attacaggca	tgagccacca	cgctggcac	45840
catttgctat	tttaattccc	atgtgtatta	gtgtcccacg	gctgctgtaa	caaatgacca	45900
caaactggat	ggcttaaagc	aacagaaatg	gattccccca	atgtgctgga	gaccagaagc	45960
ctgcgaccaa	actgttggga	gggctgtgct	tcctctgggg	gctccaggga	ggatctattt	46020
gttgccctt	ccagtgtgt	gggtgccagc	gttccacact	tgtggatgcg	ccgcctcaac	46080
ctctgcccac	cttcatgtgt	ccatctcctt	tgtgtctgcg	tctttacctc	ttcttcttgt	46140
ctgtgttgcc	tcttataagg	acgtttgtca	ttgggttttag	ggcccaccca	aatcatccga	46200
gatgacctcg	tcttgagatc	cttaacctgc	aaagaccctt	tttccaaaaa	aaggttatgc	46260
tcacagattc	taggccttaa	gacatgggtg	tatctttctg	gggggcacta	tccaaccctt	46320
tatacaatga	aagacgggaa	gagggccagg	tgtggtagtt	cacgcctgta	atctcagcac	46380
tttaggaagc	tgaagcggga	ggatcacttg	agcccaggag	tttacaagta	gctaggcaac	46440
atgatgagac	cccatttcta	caaaaagtga	aaaaaaaaaa	aaaaaaaaaa	aagccagggtg	46500
tggtggctca	cacctgtaat	cccagcactt	tggtgggctg	aggcaggcag	atcacagggt	46560
caggagattg	agaccatcct	ggctaacacg	gtgaaacccc	gtctctacta	aaaatacaaa	46620
aaattatggc	cgggcgcagt	ggctcccgcc	tgtaatccca	gcactttggg	aggccagggt	46680
gggtgaatta	caagggtcaag	agatcgagac	catcttggct	aacacgggtga	aaccccatca	46740
agatcacaa	gtcaagagat	ggagaccatc	ctggctaaca	cggtgaaacc	ccgtctctac	46800
taaaaataca	aaaaattagc	cgggcatggt	agcgggcgcc	tgtagtccca	gctgctcggt	46860
aggctgaggg	aggagaatgg	cgtgaacccg	ggaggcggag	cttgcggtga	gccgagatcg	46920
ctccatgcca	ctgcactcca	gcctgggtga	cagagtgaga	ctccgtctca	aaaaaaaaaa	46980
aaaaaaaaaa	aaaaaaagaa	aattagccag	gcacagtggc	agggtgcctat	tgtcccagct	47040
acttgggagg	ctaaggcagg	agaatggcat	gaacccggga	ggtggagttt	gcagtgagcc	47100
gagatcatgc	cactgcgtct	cagcctgggc	gatagagcaa	gactctgtct	caaaaaaaaa	47160
agccaggcat	ggtggtgcat	gcctgtagtc	ccagctactc	aagaggctga	ggcaggaggg	47220
ttgttcgacc	caaggagatc	aaggctacag	tgagccatga	tcgcaccact	gccctccagc	47280
ctgggtgaca	gagtgtgacc	ctgtctcaaa	gtaagtaaat	aggaggagag	acaagtgggc	47340
agttcagact	gatggtatgg	gcacagtaga	gactggtgca	gacaggctgg	cctgtgatgt	47400
caagcaactt	ctgtaattgt	ttccggcatc	catttgtgtg	tcaatttccg	tgtcagtagg	47460
aagactctgt	aggctgcca	gaggaataag	tggtggagtc	ctcccagaga	ggccgggcct	47520

gcaggagggc	cagttctcat	gagttctcat	ttggccccta	ccctccaggc	tgtggttctg	47580
aggtgggaga	cagagcctga	cctctgtttg	tcttgttttg	tctttgcagc	agccccacca	47640
tgtgcccgtg	acaatggtgg	ctgctcccac	atctgtattg	ccaaggggtga	tgggacacca	47700
cgggtgctcat	gccagtgcca	cctcgtgctc	ctgcagaacc	tgctgacctg	tggaggtagg	47760
tgtgacctag	gtgctccttt	gggggtgatgg	acagggtacct	gattctctgc	ctgctaggct	47820
gctgcctggc	atccttttaa	aatcacagtc	cctgtggcat	ccagtttcca	aagctgattg	47880
tgtcttcctt	tgcctcctt	tcttttctac	tatgtgcatt	cgggtgctatg	aattttcctc	47940
taagtactgc	gtttcctgca	tctcacaaat	tttgttacat	tttcattttc	aggtagtttg	48000
aataatttta	cacttctcct	gagatgacat	ccttggtcca	tgtgttattt	agaagtgttg	48060
cttagtttct	aaagagttgg	ggcttttcca	gctgtctctc	tgcaactgat	ttctaattta	48120
attctactgt	agtctgagag	cttattttat	atgatttctg	ttattttaaa	tgtgttgggg	48180
gtgggtgttt	tgtgttatt	gtttttgtgt	ctttttgttt	tgttttgctt	cgtttgtttt	48240
gtttttgaga	cagtgtcttg	ctctgtcaact	caggctggag	tgcaatggcg	cgatctcagc	48300
tcaccgcaac	ctctgcctcc	cgggttcaag	tgatcctctt	gcctcagcct	cctgagtagc	48360
tgggattaca	ggtgcacgcc	accataccca	gctaattttt	gtatttttag	tagagacggg	48420
gtttcaccat	gttggtcagg	ctggtctcga	actcctgacc	tcgtgatccg	cccacctcgg	48480
cctcccaaag	tgtctgggatt	ataggcgtga	gccactgtgc	ctggccatta	ggtgtgtttt	48540
atcaccagc	atcatgcagt	ttatcttggg	gaatgttctg	tgtactcttg	aaaagaatgt	48600
ggattctgct	gttgttgggt	ggagtgttcc	agaaacatca	attagatcca	gttgggttaat	48660
agtgtctcat	aggttgtctc	tatccttctt	tcttgactgc	ctgcttgagc	tgtcagttat	48720
tgacaggggt	gtggagtctc	caactctaata	ggtggatttg	tttatttctc	ctagtagttc	48780
tatctttttc	tctccttcta	cccttgatcc	tcttctcccc	ctagggcttc	ctggtgttag	48840
tgggtgggaga	gtggggtagt	gaagaacctg	gacttttaggg	ccaaagaggc	cagggttcaa	48900
atcctggctc	tgtcaacttc	cagttgagtg	accctggctg	gtgcctgaat	ctctgtgagc	48960
ctccacttcc	tctctgtga	aattgagagc	acttacctgg	caggctgtca	tgggcatcaa	49020
gtaacagggc	actccacctg	gacctgaca	cgtgatgcac	aggaatgcca	gctgctatgc	49080
catgggtgtg	gcagtagtaa	taaagtgacc	atctgtatcc	tcaccacagt	gaagcctgtc	49140
cagggtcttc	tctcctatgc	ccccatgcct	ccagggtggc	ttggatcctg	ttggttctgt	49200
gctctgctca	gcgacctttc	tcccgtagga	gttccctggg	gttcagcttc	atcctacaga	49260
cagcagcaca	cactggctgt	gcacctttt	tttttttttt	tttttttttt	tgagatggag	49320
tctcgctttt	ttcgcgagg	ctgaagtga	gtgggtgtgat	cttggctcac	tgcaacctct	49380
acctcctggg	ttcaagtgat	tttccctgct	cacctcccca	agtagctggg	attacaggct	49440
cccaccacca	cgcccggtta	atttttgtat	tttcagtaga	gatgggtgtt	caccatgttg	49500
gccaggatgg	tcttgaactc	ctgacctcag	gtgatccgcc	cacctcagcc	tcccaaagtg	49560
cagggattac	aggcgtgagc	caccacaccc	ggagtgcgg	ttgttttttag	cagtttgtct	49620
tgttccctgga	gagactggct	cctgcccagg	agctcgggga	gtagggccgc	gggggtgctgc	49680
ctcacacctc	gagtttggcc	gtaagcagag	gggacatttt	gtgactgtcc	ccctcctgag	49740
cttcccagca	gcttttctcc	aagttacagc	ccaaaagctc	aggtggattt	gcaacccaac	49800
ggtgtctctg	cacctccac	tgatgcccga	actgcccctg	ccaagaaacg	gggccgtcag	49860
aacgctgcac	taactgcagc	cttgggcctc	catgccagag	gccatgccct	tccatccacc	49920
acccctggc	ctgggccttg	ggccctcctg	gctcggaac	tccaggcccc	ttcctcacgg	49980
ctcgagagac	gtgtatttac	cgcacaggtg	cttgtcatte	tcttgtggcc	tcttctccag	50040
ggagatcaca	gaaggacagg	gcctcactga	ggtctcggac	atggaccctt	tgatagtggc	50100
aggagccagg	ctgggcaaga	ggcgccaca	gtcacctcag	cagtgccatc	accaccgcca	50160
ttcagccctt	cctgagccg	ggcgccccc	tggtctctgg	cccagtgtcc	cagttacagc	50220
tcacaggagc	ttgtggtgcc	cagcggtctg	ttctgattga	gagtcgaggt	cggaggcttt	50280
gggaggctga	gaggctgctc	ggtttcacaa	ctgctgaggg	agacttgggc	tccatctcag	50340
gtatgcccc	tgtcgccctc	aacctccagc	caccggtcct	ccgtgtcccc	catggccagg	50400
cacggcttgc	agacatctgt	cgttggctcc	tctcagccgt	cgtgggctga	ccctggcacg	50460
tcctcctgtg	gctgagccca	gtggggacag	ctgcttccct	ttattaccct	agaactctcg	50520
tctttgatca	ggccccctcc	cctatgccac	acagtcctctg	tcactcgggt	gagcccagta	50580

gtcatgggga	aggcctgcgg	gttccaaaca	tccaaaggct	tgcgtgcagc	atgacagctt	50640
gaaaccgatg	ttttttacct	tgatcagatt	tcagcttgge	gggggctttg	ctcagctttc	50700
agtgaggcct	gggcccattt	cccagcatcc	cctcctgagg	ccagcctctg	tttctctgtg	50760
ttttctgcac	aaagtgggag	ggaggagtcc	taggaaatgg	ggggccacct	cgaagcctag	50820
gcctcctctg	gcttctctgt	gccagtcccc	ccacgctttg	tgtctgtgtc	cccagcccat	50880
gggactctgc	tattccctga	gtgctgcgcg	atgcccagcc	cgcactgagg	acgtggagcc	50940
ccgaggggca	ggatggcctc	catggtcaca	cgtaggaagt	ggcctccacc	ctccgatgat	51000
cctctccctc	ctccctttca	gcgcctccc	cgggggtgtc	ctcagccctc	ctgcctgtgc	51060
tttgtcccg	cttctgcagg	cgctggggac	gtgctgacag	gtcctctgcc	ggctcctgcc	51120
ttgctatgcy	cacgctgggt	accacagagg	cctggccctt	cttctgtagc	agtcccacac	51180
ccgcaacagg	tgtggctgct	gaccacctgc	tttctgcccc	tctggctcctg	aggaggggcg	51240
agtgggcact	caggcgtggc	tgagcagatg	tgtgttgccg	ggaggaggaa	ggactgctcc	51300
agtcagggct	gaatttccca	cccggagcat	ttctgctgta	tttgggtgtag	cgctgctgc	51360
ttaaagctct	gattcccagt	tggcaccctt	tcccttctgc	attgaaaaac	atacggatgc	51420
atgtcttctt	gcagtgaatg	tgtattctcc	cagcctctct	tctgggttgg	ggctggagg	51480
ggagcggcac	acaggagccg	cagcgatgga	ggatgtgcgg	gtgcagcacc	ccgtacagca	51540
gggatgccaa	acccgcgctg	agtcctctc	aacttctgct	ttgaagccca	gtcacgccat	51600
tgcttgggtt	ttgctggggc	gggctgcgtg	tgatgttctc	ctctgtccct	ccccagagc	51660
cgccacactg	ctccccggac	cagtttgcac	gtgccacagg	ggagatcgac	tgtatccccg	51720
gggcctggcg	ctgtgacggc	tttcccagat	gcgatgacca	gagcgacgag	gagggtgccc	51780
ccgtgtgctc	cgccgcccag	ttcccctgcy	cgcggggtca	gtgtgtggac	ctgcgcctgc	51840
gctgcgacgg	cgaggcagac	tgtcaggacc	gctcagacga	ggcggactgt	gacggtgagg	51900
ccctccccgt	caaggctctg	ccaagaccct	ggccctgccc	tccgggatac	gagcttgggg	51960
ctgcctccgg	cctcacagga	gtaggggctc	tgaaaacctt	tgcttgagg	gagattgcca	52020
agtctgtctt	ttaggcccaa	caaggaaaac	tctgcagttc	cacccatcct	gtcccaccag	52080
gtagtgtggc	ttgaaggcag	actgtgaggg	tctatctcac	cttctgcat	taggtcagga	52140
gtttcacaga	aacctgaggg	acattcaggg	gtgggctgca	gaggtccatg	gctcacaccc	52200
tggaaaatcc	gcccccaaaa	gacagtgtctg	tctccactga	ccagtctgtg	ggatagtgtc	52260
taagcctgag	tgggtttctat	caacatgtag	aatcaggagg	tataaagaga	tttgtctagg	52320
catcctgggc	cctctctgac	cagcaggatc	ttcctttaga	tcttgacagt	gaaacacatc	52380
tcttctgtgc	ccctgtgtag	ttttctttca	ttcattcatt	cattcattca	ttcattcatt	52440
cattcattcg	agacagagtc	ttgctctgtc	acccaggctg	gagtgcctctg	gtgtaatctc	52500
ggctcactgc	aaocctctgc	tccagggttc	aatcgattct	cctgcctcag	cctcccgagt	52560
agctgggatg	acagggtgcgc	accaccatgc	ctggctaatt	tttgtatttt	tagtagagac	52620
agggtttcac	catgttggcc	aggctggtct	cgaactcctg	acctcagggtg	atccgcccgc	52680
ctcagcctcc	caaagtgtctg	ggattacagg	catgagccac	cgcgcccggc	ctgagttttc	52740
cttttatgaa	ggacctgctt	ggttgggttc	ctgccacatg	ttgtcagcac	catgggcccc	52800
ggactgctga	ggagctgttg	atgccctcgc	tctcccagag	ccaccggctc	tgtagataaa	52860
ttcacatgca	gtctggccac	tgtcctacgt	cctcattcac	aaagagcaga	catttcgtag	52920
aagatgaggg	cctgggagta	acctccctgc	atgtttttct	ataaaggcat	agtgggttaag	52980
tccttccagc	tcattgacca	ttggagaatt	ttatggaggc	tgtagactag	gggctggtaa	53040
actaaggggc	caggggcccc	atccagcctg	ccacctactt	ttgtaaataa	agttttcttg	53100
gtgcacagcc	atgcccattc	attcatttgc	acaatgtctg	tggctgcttt	catgccccaa	53160
gcaagagaac	tgagtgggta	tgttgagagc	ctacggcctt	caaagcccc	gacctcacgt	53220
ctggcccttg	acagacagag	cttccccagc	cctgctgcgc	atcctggccc	agcatgtgct	53280
gtgtgtgtga	tttcagcttg	caggagccgt	ggtaggaat	tgtccctgtg	ttggtccatt	53340
ttgcattgct	atgaaggagc	acctgaggcc	ggtagatta	tgaaggaaag	aggtctgtct	53400
ggctcatggt	tctgtaggca	gcaccagtat	ggcaccgcga	tctgctcagc	ttctagttag	53460
gtctcaggaa	gctttgactc	atggtgaaag	tcgaagcggg	agcagggtgca	tcacatgggtg	53520
agagagggag	caacggagag	agagagagag	cgcctctccc	tcttgccctc	accttgagag	53580
gagatgccag	gtccctttaa	gtaaccagct	cccatgtgaa	ctcacagtga	gagcccat	53640

gctactgctg	agagggcacc	aggcatctgc	tcccatgacc	caaacactgc	ccaccaggcc	53700
ctacctccaa	ccttgggggtc	atattttatt	ctgttctatg	ctatgctatg	ctatgccatg	53760
ccatgccatg	ccatgctatt	cctattctat	tatttgagac	agaatctcgc	tctgttgccc	53820
aggctggagt	gcagtggcat	gatcttggct	cactgcaacc	tccacctccc	aggttcaagc	53880
gattctcctg	tatcagcctc	ccgagtagct	gggattacag	gcacacacca	ccacaccggg	53940
ctaatttttg	tattttcaat	agagatgggg	tttcaccatg	ttggccaggc	tggctctaaa	54000
ctcctggcct	caagtgatcc	acctacctcg	gcctcccaaa	tgcccatgat	tacagatgtg	54060
agtcactgcg	cccagtgagg	gtcacatttc	cgttgagatt	tggaggggca	gacgttggag	54120
ccatctgagc	cccctcgtcc	cgctctagct	tctcctcccg	tgtgccccgc	ggtgctggtg	54180
gcaggccctt	acgcgggttc	tggctgcatg	ctctgttcca	gaagctttct	tccctgcttg	54240
gttaccagaa	aatcatccca	tccattacaa	ggacagggtc	cccttatctc	ccattcccag	54300
ggcaggacac	cgggggcagg	gcagggtggg	aactgagcaa	gttctctggg	ggcaggcgtg	54360
gctatggctc	cctctgggtg	ggcgtctggg	gaggggtgga	ggcagccgtc	agcgccctgg	54420
cttgctcttc	ctccctggcc	agagactgtg	gccttgtgct	gctcccgtgt	gggtgcctg	54480
cacctccagt	gggttgtgct	ccctcccttc	ccctcccttc	aagctctgct	gagcaccact	54540
gccttcaca	gccccactc	tggggaggcg	aggctcctcg	tggccattcc	tgtccttggc	54600
acccaccccc	ccaccaacct	ggtagagcct	tggggggggg	ctgttactcc	ttgcatggcg	54660
tagacctccc	cacagtaggc	acctgacaca	tacctcctgg	ggggcaggca	ggaggtgcgt	54720
tgaggtctca	gccctggcag	tccctccctt	gcgtggcata	ggcctcgcca	cagggtcctc	54780
gaggggtggg	ggagactgta	ctagaccact	ccccgctggt	cctagaaagg	gtcccctctg	54840
tctgctctct	gtttggagtc	cagaccttgg	ttgctgtgct	ctgcatgggt	ggctgggggg	54900
cacctccag	cctctctgag	tgcattggct	ctccttgcag	ccatctgcct	gcccacccag	54960
ttccggtgtg	cgagcggcca	gtgtgtcctc	atcaaacagc	agtgcgactc	cttccccgac	55020
tgtatcgacg	gctccgacga	gctcatgtgt	ggtgagccag	cttctggcac	ggggaagggg	55080
cgteccgggt	gggttccccc	aggaacgtgg	agtttagggg	aggagacgtg	cctttccagc	55140
ggggctgggg	gctgtgtggg	agactcaggc	ggctggggagg	ctccttgcgg	gaggcaggga	55200
agcctttccc	agggcagcgg	ccaggaggac	agactgtgag	ctgtgggctc	ggcggctaca	55260
gagtctgcct	cagtgggcgg	ggctgatggg	gtccagggtc	ctgcagcacg	caccaccca	55320
cgggaccttg	ctgagcagcg	tctgtcaggc	agcaagatta	cccaggggct	gcagtggctc	55380
tgttccctgg	cagcttactg	tctggctgag	gaggagtgat	gttcacatat	gcacacatgt	55440
catgtgcaca	cacatgtaca	tgacaacatc	ccacatgctc	ctcaaatagc	atgacctgta	55500
cagtacagga	tatagggcct	aggggatagg	aggccaagac	agtcaggga	gactttccag	55560
aggcagtggc	tctgaaagg	ctgtctgatt	caggcaggaa	gggagctgag	ttcagatagg	55620
aagtagcaat	gagtcattgt	gtctggggac	atggccactc	cttcgctgca	gagggacctg	55680
ggctgagagc	tctctcttta	tggctgcagt	cgggagagaa	gtctgttggg	gggagaaggg	55740
ggcttccctc	agggactccc	tgtgcccttt	ggcaccttcg	tgccagggtc	ggcttgaggc	55800
ctgaaggcag	tgggtggggc	caccaagggt	cgcctcctct	gctgggcaag	ttcccagctc	55860
gacgggcctg	tgcctggggc	cccagctgtg	ggggcgctgt	tgatgcgcag	ccaggcctcg	55920
ccgccagagc	ccgcacgctt	ccattccgct	gacttcctcg	acgccctcag	gatecgtggg	55980
ccggccctgt	gggagagtga	atgtggcctt	tgccaaagtt	gagtctggag	cctggaaact	56040
tccctatggg	cagccttgat	agtggagtgg	cccaaggagc	ccaccagacc	gacctgccc	56100
ctcccgctgg	tgggtggggc	caccaggggc	tgcctggcct	tgctcgttca	ccaacatcac	56160
ctgggctggc	cagggcgcg	tcacttctgc	caccaccgag	ggccctgggc	gaaggagtga	56220
ataccaggct	gccttggcag	ggatgtgttg	agggtctgtg	ggagtcggac	agcggcgggg	56280
gtcagaggag	gaggagggtg	caccgtgcag	gctgaagggc	cacgttacc	tgaggttggc	56340
caggctcccc	aggcctagcc	tcccagctcc	cccactttct	ccccaccctc	caccagtggc	56400
aaagccagcc	ccttcagggc	gcacggtgtc	tgcccccaag	gagggcccat	tccgttgggg	56460
ttaatgttgg	ccacctcttt	ctgtttgtct	ctggcagaaa	tcaccaagcc	gccctcagac	56520
gacagcccg	cccacagcag	tgccatcggg	cccgctcattg	gcacatcct	ctctctcttc	56580
gtcatgggtg	gtgtctatct	tgtgtgccag	cgcgtgggtg	gccagcgcta	tgcggggggc	56640
aacgggccct	ttccgcacga	gtatgtcagc	gggaccccg	acgtgcccct	caatttcata	56700

gccccggg	gttcccagca	tggcccccttc	acaggtaagg	agcctgagat	atggaatgat	56760
ctggaggagg	caggagagta	gtctgggcag	ctttggggag	tggagcaggg	atgtgctacc	56820
ccaggccctc	ttgcacatgt	ggcagacatt	gctaatacgat	cacagcattc	agcctttccc	56880
actgagcctg	tgcttggcat	cagaatcctt	caacacagag	gcctgcatgg	ctgtagcaac	56940
ccaccctttg	gactgttagg	tgtggagaaa	gctccttgga	cttgaccttc	atattctagt	57000
aggacatgtg	ctgtgtttgtc	cacaaatcct	catgtaccct	agaaatgaat	gtgggggagg	57060
ctgggctctc	tccagagctg	aaggaaatcac	tctgtaccat	acagcagctt	tgtcttgagt	57120
gcagctggga	tttgtggctg	agcagttaca	attcctacgt	ggcccaggca	ccaggaacgc	57180
aggctgtgtt	tgtagatggc	tgggcagccg	caccgcagag	ctgcaccatg	ctggtttgta	57240
tcacatgggt	gaccatggta	tgtctaagaa	ggtggagtcc	ctgtgaggtc	tgcaggtgcc	57300
cccacagctc	caggccacct	tgaggattgc	ctctgcctgc	ccagccctga	gttccctctc	57360
ccctgtcctg	tcccactgtc	accccaagcc	ggcctcattg	ggagcctgtt	ggatggcagg	57420
gtatagatgt	aacctgattc	tctctgggga	gcgggggttat	ctggcttctc	aagagctcct	57480
aggagcccac	agtgggtggca	ccatcacagt	cgcagcagcc	cccagagaac	gcggccctgt	57540
ctgttccctg	cgtgctctgt	gctgccccgc	ctgggttccc	tgccccagtc	gcaggccctc	57600
tggaggagg	accatgtgtc	tcccgtttca	cagatgagcc	ccggggagct	cactctagta	57660
gtggccagag	aggcctgcgg	ctcagggagc	ggggcacatt	tccaacagga	cacaccgccc	57720
tggctctgagt	ctcgtgggta	gtgggagcag	aggagagcgc	cctatgtctg	tggggcggtc	57780
tggctgagcc	tgggaagccac	ctgacctccc	ccgtcccttc	cctgccagge	atcgcatgcg	57840
gaaagtccat	gatgagctcc	gtgagcctga	tggggggcgg	gggcgggggtg	cccctctacg	57900
accggaacca	cgtcacaggg	gcctcgtcca	gcagctcgtc	cagcacgaag	gccacgctgt	57960
accgcgcgg	gagggggcggg	gccggggagg	ggcggggcgg	gatggggctg	tgggcccctc	58020
ccaccgtcag	tgtctggccac	cggaggcttc	ccgggttcc	gggggctgtg	ccaccgcctc	58080
tgaggcatgc	ttgctttctt	cccttttcaa	acccttctgc	ttccttcttt	aatgacattg	58140
ttgattgtgg	ataatctgaa	aactacacaa	aaatataaag	agccaaaatc	tcacccaaat	58200
ccacctccta	gagtggctgt	tgggctccgt	cagcatccag	gcggccgtct	gtgttccgca	58260
cggcccagcc	catcgatagc	cgcctgcacc	aggcctgtct	gccctctgtg	agcctcccca	58320
cagggttccc	tccacaaaca	ccctgttctc	ccaccaggg	ctggctgctt	cctggaaaac	58380
agctggatgg	ttttgtgcat	gacagacaaa	cacagggtga	ttttcgtggc	taaaatactc	58440
cctggagctt	ttggcaggg	gaggggctgg	ctccagctga	gccacgcctt	gagtgaatg	58500
actgtgagga	gaataaactg	ccgtgcctc	ccaggatcac	tggggctggc	tggggagaa	58560
ccccgtttct	gggagcacag	tcccaggatg	ccaaggcgag	cttgggtgcc	agatgtgaac	58620
tccctgagtgt	aaacagcggg	ggctgacttg	acatgctttg	tatgcttttc	atttgttcc	58680
gcagctgtat	gcccctaagg	tgagtccagc	ccccctctgc	ttcctctggg	gcctcgccag	58740
tgagccccc	cttgcctggg	ctggttccct	ctgcccttct	gggtatccct	cacatctggg	58800
gtcttgtctt	cttgttttct	ttttcttttt	tttttgagac	ggagtttcac	ttttgttgcc	58860
caggcttcag	tgcaatgggtg	tgatctctag	gctcaccgca	acctctgcct	cccaggttca	58920
agcagttccc	ctgcctcagc	ctccctagta	gctgggatta	caggcatgtg	ccaccacgcc	58980
cagctaattt	tgtattttta	gtagagatgg	ggtttctcca	tgttggtcag	gctgatcttg	59040
aactccctac	ctcaggtgat	ccgcccacct	tggcctccca	aagtgcctgg	attacaggcg	59100
tgagccaccg	cacctggcct	ttttcttttt	ttttcttttc	tttttctga	gacagggtct	59160
cgtctgtgca	cccaggctgg	agtgcattgg	tgtcatcatg	gctaactgca	gcctctacct	59220
tctaggctca	agcaatcctc	ccatctcagc	ccctaagtag	ctaggactgc	acgcatgcat	59280
ccccatgccc	agctaataatt	tacatttttt	gtagagatga	agtttacta	tattgcccag	59340
gctggctctc	aactcctgga	ctcgagcgat	cctcctgcct	cggcctcccc	aggtgctggg	59400
attacaggcg	tgagccaccg	tgccctggcct	ggggatttgt	cttcttatgg	cacctgactg	59460
tgggtggccc	tgggaaggaa	gtagcagaag	agggttcttc	ttggtttctc	ggacagtaac	59520
tgagtgttct	ggaggcccca	gggcctggct	ttgtttaggg	acaaaggga	ctggtaacca	59580
gaagccgaga	gtttaaacac	ccactgcctc	tcttccctgc	tcctgctgct	gcaaccacgc	59640
ttaaccagcc	aggagtgtct	ggaacccaag	cagggccccc	gagcacacag	caggcagctc	59700
acgaattctc	ttttcctggt	ctcccttggg	agctgggagg	atcttaataca	ggcaataaga	59760

gatggcactg	agcagccagc	taatttttta	aatcacttta	ttgtttaacc	atatgactca	59820
cccacttaaa	aaaggggtaca	gttcagtggg	ttttagtgtg	ttcacagatg	tgtgcaaccc	59880
tcaccacagt	taatttttaga	acatttttct	gcccctaaaa	gaaactctgc	atgaagccag	59940
ctgtttttta	attagcaaag	ttatttttgca	tccttttaaat	atatgttcat	ggtacaaaat	60000
tcaaaagata	cagaagagtc	tgcagtccaa	agagactccg	cccccatgac	gccaagcagg	60060
catccctggg	aggcatggcc	tcctgcagtg	tgttttcttct	atgtcccccc	aggggtcatc	60120
tgtacatatg	caagcataca	agagcgtgga	ctttgttttc	caagccagaa	gataattgta	60180
gatttatgtg	cagttgtgag	aaagagcaca	gaccatttta	tcctctgcct	ggtttcccc	60240
agtgtgcct	gccatcttgc	atgacttcca	ttcctatcat	aagcaagaca	ctgataacga	60300
ttctttcacc	ttattcagat	tgacataagt	gttttttggt	tgttcttgag	acaaacttcc	60360
tctgtcacc	agtgggagtg	cagtggcaca	atcacagctc	actgcagcct	caaactcctg	60420
ggctcaagcg	attctcctgc	ctcagtcctc	tcaagtagct	cagatggcag	gtgtgcacca	60480
tcatgccagg	ctaattttta	aattttttgt	ggaggtgagg	cctcactaaa	tttctctggg	60540
tagtcttgaa	ctcctgagct	aaagtgatcc	tcctgcctca	gcctcccaaa	gtggtaggat	60600
tacaggcatg	agccactgcg	cctgggctga	catatgtggt	ttcgttaagc	cgaaagatag	60660
catctgaaga	gtcaacattg	agccttgctt	tttgcctgta	acgatgtata	aaagctgctg	60720
ttctgagcat	ttcggaggct	cccagctgcc	gtgtgcaccc	tgcttagagc	tctaccgtaa	60780
cccatctccg	ggaggagggtg	ctattgtttt	cctcattttg	caacaaggag	gctgaagaac	60840
tgagcatgaa	ccactggcct	gggtcggttcg	gttggtaggc	agtggggcca	ggccatccaa	60900
ctcacaacca	ccttctactc	tgcttcccc	gcacctgaa	gtttgttctg	ttttgaggac	60960
acagccgtca	cattcttggg	ggctgaacag	cactccttgt	caggcgtggc	tgggccccca	61020
ctggaggggca	tcattggctc	ctctcctgct	gcggttgaac	cttggctggt	tcaaccactc	61080
ctgccaagtg	gccctctgaa	agggacagtc	catcttttct	cagcagaggg	ccacactggc	61140
aaaacgggtc	ctggcaccct	ttctctccac	ctgtctaata	tagagtaaaa	atggtatcat	61200
gttaagatct	tcattttatat	ttattttatc	atgaatgatg	taagcatcat	tttgtgtggt	61260
taagaacctt	tgggcccagc	gtgatggctt	gcagctgtaa	tctcagcact	ttaggaggct	61320
gagatgagcg	gatcacttga	ggccgggagt	ttgagaccag	cctggccaac	atggagaaac	61380
cccgctctta	gtaaaaattt	aaaaatttagc	cgggtatggt	gatcccagct	acttgggagt	61440
ctgaagcatg	agaattgctt	gaacatggga	ggcggagggt	gcagtgagcc	gagatcgcg	61500
cattgcactc	cagcctgggc	gacagagcga	gactctgtct	caaaaaaaaa	aaaaaaaaaag	61560
aaaagaaaag	aaattatcaa	tctcctcttt	tatggcatat	atatatatat	atatatatat	61620
atatatatat	atatatatatt	tttttttttg	gttatgttca	gaaaggcctt	ccctgctctg	61680
atcataaaaa	acaacttatt	ttcacactct	ctctcttttt	tttttgagac	agagttttgc	61740
tcctgttgcc	caggctggag	tgcagtggcg	caatctcagc	tcactgtaac	ctccgcctcc	61800
cgggttgagg	tgattctcct	gccttacctt	cccgagtagc	tgggattata	ggcatgcacc	61860
accatgcctg	gctaattttg	tacttttagt	agagacgggg	gtttctccat	gttggtcagg	61920
ctggtctcga	actcgcgacc	tcagggtgatc	caccacctc	ggcctcccaa	agtgtcggga	61980
ttacagacgt	gagccaccat	gcccagccca	cactctcttt	cttaacgtcc	tcctcctttc	62040
gttttacggt	cacatcttta	attcttctg	gatgtaatta	gatttgatga	gcaagggtgg	62100
catccagctt	gtttcttggc	tgatggctta	tgggtggcgt	gaattagtcg	gggtctatca	62160
ggaggcagaa	actctatgag	aatttgaaca	gagaaagtcc	cgtctacagg	cttattacca	62220
gggactggaa	tagcagaaat	tgaacagtga	gatgtacaga	gaactctaag	aatgcaggaa	62280
taggcccagg	atggtggctc	acacctgtca	tcccagcact	ttgggagacc	aaggcgggtg	62340
gatcacctga	ggtcaggagt	tcgagaccag	cctggccaac	atagtgaaac	cccatctcta	62400
ctaaaaatac	aaaaaaatta	gctgggtgtg	gtggcgcatg	cctgtaatcc	cagctactcg	62460
ggaggctgag	gcaggagaat	cacttgaacc	tgggaggcag	aggttgagct	gagccgagat	62520
catgccactg	tactccagcc	tgggtggaag	agcggaactc	tgtctgaaaa	aaaaaaaaaa	62580
aacaagaagt	tcaacttgaa	gggaaaaatg	ccgtattgtc	tttccctttg	ttatgtcacc	62640
agggcacagt	ccatcccagg	ctggcgctga	tccacgggct	ggagaggggc	tgccccagaa	62700
gaggacatgc	caggaagggc	ttggctgggt	ttcaggagcc	caggccaggt	caggtcaaga	62760
ggtgttgagg	ctggacggga	gaggccagct	aggggctcat	gtaggatatg	aggggtcggc	62820

ccatttcaac	gtggaaactg	agctcttctg	cttctctttc	ttcttctactg	cattaagatt	62880
caataccgct	tgggaagcag	gtatttccct	tcctataaag	gatgggttggg	agcctgagtg	62940
ttgggagaaa	gtgtagccgc	tgagttacta	acaactaggg	ctgccgtcaa	gcctatgggg	63000
aaagagagaa	gaggacattt	ggaaggagag	agatcaagct	gtggcaccct	gggagaggac	63060
cacagaaaag	aggccagtga	gggggttccc	cgggtggcatc	tgaaggtgtg	gcccacccag	63120
gaggtccaga	ggctgccagc	cgagtggccc	aggagaggga	acctcacagg	ggctgagtgg	63180
gaccaagcc	ctatccaccg	tcctaaccac	ccacatttct	cggaacaag	acctcccaca	63240
gtggcctccc	cggcagtggg	aatagccaaa	ctggcaacat	ggacttttct	caactgcccg	63300
ggcgatgctg	cctcagtgcc	ccagggcagg	caggaagctc	ccacacccat	tctggaatga	63360
ggggttggag	gaaggctgag	ctgagcaaag	gacccatctc	tgctctgggt	ggtggggagg	63420
gagcccatta	tacaagagac	ccctcagggc	tcagtgaggg	gtgacagaga	cttggggagt	63480
agtggctgtc	actgcagagg	tgagagggtt	tggagagaag	gtacatgcct	ttttggccac	63540
attgagtagc	acctggtagc	cagttagtaa	cgtgtatttg	ataaataaaa	gattaaacgg	63600
atgcaaaaaa	aaatgttggc	tttgcttctt	tttaccctaa	cctcagttcc	ctcaagtaga	63660
ttctgggaac	accccttacc	tggctggact	gttgtgaagt	ttaaataagc	caggttaact	63720
tcacctctct	ctttaagaca	cagctcagac	actgcctcct	ccaagaagcc	ccctctggct	63780
tcctgtgtga	atatgacggc	cctctgggct	ctagggatct	ttagaacaat	gcttctctat	63840
ggcttttgaa	ccccgctgtc	tcctggattg	ggagcaaagt	caggggagga	gccacacctg	63900
actaatctct	gggtctccca	gcacataagt	ggcataaggg	cagggctgtg	cccgttctag	63960
gcacttactg	aaggatgtac	ttggcagagg	gtaggcagcc	ggcggatgag	cccctcactc	64020
tccccagctg	actgcgtggg	cgggaaaggg	gggttcagga	gaccagcct	ccctgggctg	64080
tcaccacctc	tgcacatcca	gccccattga	tcaaggggtc	aatttttggg	gtcctgttgg	64140
gaggccagga	gactctctcc	aggcacttct	tccaggtctt	tgtgttaggg	tgtgtgtgtg	64200
tgtgtgtgtg	tgtgtgtgtg	tgtgttgttt	gttttatttt	atttatttat	ttatttattt	64260
atttatttat	ttatttattt	tgagacgcag	tctcgctctg	ttgccagggt	tggagggtgg	64320
tggcatgac	tcggctcact	gcaagctccg	cctcccgggt	tcacgccatt	ctcctgcctc	64380
actcttctct	agtagccgga	ttacaggcgc	acgcaccatg	cctggctaata	tattttgttt	64440
tttttagtaga	gacagggttt	cgccacgttg	cccaggctgg	tcttgaatcc	ctggcctcaa	64500
gcgatccgcc	cgcctcagcc	tcccaaagtg	ctgggattac	aggcgtgagc	caccgtgccc	64560
gcccagccta	ggggtacatg	aaactttttt	tttttttttt	ttgagacaga	gtttcactct	64620
gtcctcaggc	tggagtgcag	tggcgtgatc	tcggcgctact	gcaatctccg	cctcccgggt	64680
caagcgattc	tcctgcctca	gcctcccag	tagctgggat	tgcaggcacg	cgccaccaca	64740
cccagctaata	ttttgtattt	ttagtagaga	cgggctttca	ccatgtggga	caggatgggtc	64800
tcgatctcct	gacctcgtga	tcgcgccgcc	tcagcctccg	aaagtgtctg	gattacaggc	64860
ctgagccacc	gtgcccagcc	atgatgtttt	gatacaggca	tataacgtat	aataatcaca	64920
tcagggtaaa	tgatgtaacc	atcacatcaa	gcatttatcc	tttgtgttac	aaaaaaaaat	64980
ctaattatac	tttctacttt	attctttttt	tttttttttt	ttgagacgga	gtctccctca	65040
gtcgcccagg	ctggagtgca	gtggcatgat	ctcagttcac	tgcaagctct	gcctcctagc	65100
tctgcctcct	gggttcatgc	cattctcctg	tctcagcctc	gcgagtagct	gggactacag	65160
gcgcctgcc	ccgtgcccgg	ctaatttttt	tttttgtatt	tttggtagag	acagggtttc	65220
accgtgttag	ccaggatggt	ctcgatctcc	tgacctcata	atccgcccgt	ctcggcctcc	65280
caaagtgtct	ggattacagg	catgagccac	cgccccagc	ctatttatcc	ttaaatgtac	65340
aataaattat	tgttgactcc	agtcacctg	ctgtgctacc	aaatacggat	cttcttcatt	65400
ctatctaact	gtatttctgt	acctgttaac	catctctcct	ccacctcacc	ccccaaaccc	65460
actacccttc	tcagcctctg	gtaaccatcc	ttctactctc	tatctctatg	agttcaattg	65520
tattaatttt	tagtcccccg	gccgggcacg	gtggctcacg	cctgtaatcc	cagcacttca	65580
ggaggctgag	gcagggtgat	cacgaggtca	ggagtttgag	accagcctgg	ccaacatggt	65640
ggaaccccat	ctctactaaa	aacacaaaaa	ttagctgggc	gtgggtgggtg	gcgctttag	65700
tcccagctac	ttgggaggct	gaggcaggag	aatcgcttga	aactgggagg	cagaggttgc	65760
agtgagccaa	gattgcgcc	ctgcactcca	gtctgggtga	cagagtaaga	ttccatcccg	65820
aaaaaaaaaa	agtttagctc	ccacaaataa	gtgagaacac	gtgaagtttc	tctttctgtg	65880

cctcgcttgt	ttcacttaac	ataatgacct	ccagttccat	ccacgttggt	gctttgttat	65940
aaatgacagg	atcttggtca	ggcgagtg	ctcatgctg	taatcccagc	actttgggag	66000
gctgaggtgg	actgatcatg	aggtcaagag	atcgagacca	tcttggttaa	cacagtga	66060
ccccgtctct	actaaaaata	caagaaatta	gccccgctg	gtggtgggca	cccatttccg	66120
cccccttctg	ggacgctgat	gcacgacata	ttacccatcc	ccggaagact	aatcctcccc	66180
cactctatat	tgtacctctt	cctttctcct	ccacgcgatt	ccccgagtaa	cccgctctcc	66240
ctccctctct	ggattacgct	cacctttccg	cttcaatcac	gttgcctcgt	ccccttcccc	66300
attcgtagca	ctcctcactt	tctgtctcct	acccccacta	tcccttttct	tctctcttat	66360
tcttacttta	ctcctcccc	ttctcttcat	acttcattcc	ctcgcctctt	ccactcgcg	66420
ctcccaacttt	cacctagttg	ccctcaccta	cggtgcacac	tgcaccttcc	ttcagctctc	66480
ggcctctcac	ccatctgtcc	tctctcttac	ctctctctct	atctcgctca	gacatctctc	66540
tagactatcc	ctcactttac	cttctcagtc	gtcttcttcc	tatccttcgt	tctccatgat	66600
cttcacgctg	ccatctcttt	tgcaccttct	catatgtctc	tcttcattgt	ctcactatca	66660
ttctcatgat	cactatcggt	ctcactactt	atcactcccc	tctttcttca	tcaattctct	66720
tccgtcattc	tgtctctct	cttacaacgc	ccttccttgt	gotatctaac	tcaaccatgc	66780
ctctctact	ctctctctat	cgcctctcca	tgccttatgc	atcctcttct	attgcacacc	66840
cgcctctcca	tgccttatgc	atcctcttct	attgcacacc	gccccctcat	cgttatgca	66900
tctctctcta	ttgcacatcc	tcttctattg	cac			66933

<210> 12
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 12	
ctgagcggaa ttcgtgagac c	21

<210> 13
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 13	
ttggtctcac gtattccgct cga	23

<210> 14
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 14	
ctcgagaatt ctggatcctc	20

<210> 15
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence is a primer.

<400> 15
ttgaggatcc agaattctcg ag 22

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence is a primer.

<400> 16
tgtatgcgaa ttcgctgcgc g 21

<210> 17
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence is a primer.

<400> 17
ttcgcgcagc gaattcgcat aca 23

<210> 18
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence is a primer.

<400> 18
gtccactgaa ttctcagtga g 21

<210> 19
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence is a primer.

<400> 19
 ttgtcactga gaattcagtg gac 23

<210> 20
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 20
 gaatccgaat tcctggtcag c 21

<210> 21
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 21
 ttgctgacca ggaattcgga ttc 23

<210> 22
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 22
 cuacuacuac uactgagcgg aattcgtgag acc 33

<210> 23
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 23
 cuacuacuac uactcgagaa ttctggatcc tc 32

<210> 24
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

 <400> 24
 cuacuacuac uatgtatgcg aattcgctgc gcg 33

 <210> 25
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificial sequence is a primer.

 <400> 25
 cuacuacuac uagtccactg aattctcagt gag 33

 <210> 26
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificial sequence is a primer.

 <400> 26
 cuacuacuac uagaatccga attcctgggc agc 33

 <210> 27
 <211> 45
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificial sequence is a primer.

 <400> 27
 aactggaaga attcgcggcc gcaggaattt tttttttttt ttttt 45

 <210> 28
 <211> 13
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Artificial sequence is a primer.

 <400> 28
 aattcggcac gag 13

 <210> 29

<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence is a primer.

<400> 29
ctcgtgccg

9

<210> 30
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence is a primer.

<400> 30
gtacgacggc cagt

14

<210> 31
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence is a primer.

<400> 31
aacagctatg accatg

16

<210> 32
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence is a primer.

<400> 32
ccaagttctg agaagtcc

18

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence is a primer.

<400> 33
 aatacctgaa accatacctg 20

<210> 34
 <211> 57
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 34
 agctgctcgt agctgtctct ccctggatca cgggtacatg tactggacag actgggt 57

<210> 35
 <211> 56
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 35
 tgagacgccc ggattgagcg ggcagggata gcttattccc tgtgccgcat tacggc 56

<210> 36
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 36
 agctgctcgt agctgtctct ccctgga 27

<210> 37
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 37
 gccgtaatgc ggcacaggga ataagct 27

<210> 38
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 38
 gagaggctat atccctgggc 20

<210> 39
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence is a primer.

<400> 39
 acagcacgtg tttaaagggg 20

<210> 40
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 40
 actaaagcgc cgccgccgcg ccatggagcc cgagtgcgct cggcgcgggc ccgtccggcc 60
 gccggacaac atggaggcag ctccgcccg gcccgcgtgg ccgctgctgc tgctgctgct 120
 gctgctgctg gcgctgtgcg gctgcccggc ccccgccgcg gcc 163

<210> 41
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 41
 gccccacagc ctgcgcgctc ctgctatttg ccaaccgccg ggacgtacgg ctggtggacg 60
 ccggcggagt caagctggag tccaccatcg tggtcagcgg cctggaggat gcggccgcag 120
 tggacttcca gttttccaag ggagccgtgt actggacaga cgtgagcgag gaggccatca 180
 agcagacctc cctgaaccag acggggggccg ccgtgcagaa cgtgggtcatc tccggcctgg 240
 tctctcccga cggcctcgcc tgcgactggg tgggcaagaa gctgtactgg acggactcag 300
 agaccaaccg catcgagggt gccaacctca atggcacatc ccggaagggt ctcttctggc 360
 aggaccttga ccagccgagg gccatcgctt tggaccccgc tcacgggtaa accctgctg 419

<210> 42
 <211> 221
 <212> DNA
 <213> Homo sapiens

<400> 42
 ccccgctcaca ggtacatgta ctggacagac tggggtgaga cgccccggat tgagcgggca 60
 gggatggatg gcagcaccgc gaagatcatt gtggactcgg acatttactg gcccaatgga 120
 ctgaccatcg acctggagga gcagaagctc tactgggctg acgccaagct cagcttcatc 180
 caccgtgccca acctggacgg ctcgttccgg taggtacca c 221

<210> 43
 <211> 221
 <212> DNA
 <213> Homo sapiens

<400> 43
 tccctgactg caggcagaag gtggtggagg gcagcctgac gcaccccttc gccctgacgc 60
 tctccgggga cactctgtac tggacagact ggcagaccgc ctccatccat gcctgcaaca 120
 agcgcaactgg ggggaagagg aaggagatcc tgagtgcctt atactcacc atggacatcc 180
 aggtgctgag ccaggagcgg cagccttttt gtgagtgcgc g 221

<210> 44
 <211> 156
 <212> DNA
 <213> Homo sapiens

<400> 44
 tttctcagtc cacactcgct gtgaggagga caatggcggc tggteccacc tgtgctgct 60
 gtccccaagc gagccttttt acacatgcgc ctgccccacg ggtgtgcaga tgcaggacaa 120
 cggcaggacg tgtaaggcag gtgaggcggt gggacg 156

<210> 45
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 45
 ctccacagga gccgaggagg tgctgctgct ggcccggcgg acggacctac ggaggatctc 60
 gctggacacg ccggacttca ccgacatcgt gctgcagggtg gacgacatcc ggcacgcat 120
 tgccatcgac tacgaccgc tagagggcta tgtctactgg acagatgacg aggtgcgggc 180
 catccgcagg gcgtacctgg acgggtctgg ggcgcagacg ctggtcaaca ccgagatcaa 240
 cgaccccgat ggcacgcggg tcgactgggt ggcccgaac ctctactgga ccgacacggg 300
 cacggaccgc atcgagggtga cgcgcctcaa cggcacctcc cgcaagatcc tgggtgtcga 360
 ggacctggac gagccccgag ccatcgact gcaccccggt atggggtaag acgggc 416

<210> 46
 <211> 198
 <212> DNA
 <213> Homo sapiens

<400> 46
 ttcttctcca gcctcatgta ctggacagac tggggagaga accctaaaat cgagtgtgcc 60
 aacttggatg ggcaggagcg gcgtgtgctg gtcaatgcct ccctcgggtg gcccaacggc 120
 ctggccctgg acctgcagga ggggaagctc tactggggag acgccaagac agacaagatc 180
 gaggtgaggc tcctgtgg 198

<210> 47
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 47
 ccgtcctgca ggtgatcaat gttgatggga cgaagaggcg gaccctcctg gaggacaagc 60
 tcccgcacat tttcgggttc acgtctgtgg gggacttcat ctactggact gactggcagc 120
 gccgcagcat cgagcgggtg cacaagggtca aggccagccg ggacgtcatc attgaccagc 180
 tgcccgaacct gatggggctc aaagctgtga atgtggccaa ggtcgtcggg gagtccgggg 240
 ggtc 244

<210> 48
 <211> 313
 <212> DNA
 <213> Homo sapiens

<400> 48
 gttcgtctcc aggaaccaac ccgtgtgcgg acaggaacgg ggggtgcagc cacctgtgct 60
 tctgcacacc ccacgcaacc cgggtgtggc gcccacatcg cctggagctg ctgagtgcaca 120
 tgaagacctg catcgtgcct gaggcctttt tggctctcac cagcagagcc gccatccaca 180
 ggatctccct cgagaccaat aacaacgacg tggccatccc gctcacgggc gtcaaggagg 240
 cctcagccct ggactttgat gtgtccaaca accacatcta ctggacagac gtcagcctga 300
 aggtagcgtg ggc 313

<210> 49
 <211> 255
 <212> DNA
 <213> Homo sapiens

<400> 49
 cctgctgcca gaccatcagc cgcgccttca tgaacgggag ctcggtggag cacgtggtgg 60
 agtttggcct tgactacccc gagggcatgg ccgttgactg gatgggcaag aacctctact 120
 gggccgacac tgggaccaac agaatcgaag tggcgcggct ggacgggcag ttccggcaag 180
 tcctcgtgtg gagggacttg gacaacccga ggtcgctggc cctggatccc accaaggggt 240
 aagtgtttgc ctgtc 255

<210> 50
 <211> 210
 <212> DNA
 <213> Homo sapiens

<400> 50
 gtgccttcca gctacatcta ctggaccgag tggggcggca agccgaggat cgtgcggggc 60
 ttcattggacg ggaccaactg catgacgctg gtggacaagg tgggcggggc caacgacctc 120
 accattgact acgctgacca gcgcctctac tggaccgacc tggacaccaa catgatcgag 180
 tcgtccaaca tgctgggtga gggccgggct 210

<210> 51
 <211> 352
 <212> DNA
 <213> Homo sapiens

<400> 51
 gtgttcatgc aggtcaggag cgggtcgtga ttgccgacga tctcccgac ccgttcggtc 60
 tgacgcagta cagcgattat atctactgga cagactggaa tctgcacagc attgagcggg 120

ccgacaagac	tagcgggcgg	aaccgcaccc	tcatccaggg	ccacctggac	ttcgtgatgg	180
acatcctggg	gttccactcc	tcccggcagg	atggcctcaa	tgactgtatg	cacaacaacg	240
ggcagtgtgg	gcagctgtgc	cttgccatcc	ccggcgggcca	ccgctgcggc	tgcgctcac	300
actacacct	ggaccccage	agccgcaact	gcagccgtaa	gtgcctcatg	gt	352

<210> 52
 <211> 225
 <212> DNA
 <213> Homo sapiens

<400> 52	
gcctcctcta	cgcccaccac
atcccggacg	accagcacag
aaagccatcg	actatgaccc
atcaagcgag	ccaaggacga
cttcttgctg	ttcagccaga
cccggatctc	atcctgcccc
actggacaag	ttcatctact
cgggacccag	gcaggtgccc
aatctgccat	cagtcggatg
tgcatggact	gaggaacgtc
gggtggatgg	gcgccagAAC
tgtgg	
60	120
180	225

<210> 53
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 53	
ctttgtctta	cagccctttg
gccccacgac	ctcagcatcg
caataccatc	aacgtccaca
ccgcgacaag	cccagggcca
ttttgacctc	tctgagccaa
ccggacactg	ttctggacgt
ggaagccatg	gggtgggtgc
cgcgagcgga	gggtaggagg
ggccaaaacc	cagacaggca
gcgaggccac	
tgctgggga	
ccaac	
60	120
180	235

<210> 54
 <211> 218
 <212> DNA
 <213> Homo sapiens

<400> 54	
ccacctccc	gcaggtacct
cgcgcagccc	tggacggcac
gtggccctgg	tgggtggaaa
cgcattgaga	gctgtgacct
gtacttcacc	aacatgcagg
gtcctcttca	ccaccggcct
aagctgttct	gggtggacgc
cgccccgg	
caagatcgaa	
catccgcct	
ggacctgaag	
60	120
180	218

<210> 55
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 55	
ggctgcttgc	agggggccaac
gcctgaccat	ccttggcaag
gtgtggagaa	gaccaccggg
ctggcatcca	tgcagtggag
cgctgaccc	tggaggacgc
ccagcagcag	atgatcgagc
gggccgtgtc	gccacctca
ctgtacgtgg	gggc
60	120
180	234

<210> 56
 <211> 157

<212> DNA

<213> Homo sapiens

<400> 56

ttgtctttgc	agcagcccac	ccatgtgccc	gtgacaatgg	tggctgctcc	cacatctgta	60
ttgccaaggg	tgatgggaca	ccacgggtgct	catgcccagt	ccacctcgtg	ctcctgcaga	120
acctgctgac	ctgtggaggt	aggtgtgacc	taggtgc			157

<210> 57

<211> 272

<212> DNA

<213> Homo sapiens

<400> 57

gttctctctct	gtccctcccc	cagagccgcc	cacctgctcc	ccggaccagt	ttgcatgtgc	60
cacaggggag	atcgactgta	tccccggggc	ctggcgctgt	gacggctttc	ccgagtgcga	120
tgaccagagc	gacgaggagg	gctgccccgt	gtgctccgcc	gcccagttcc	cctgcgcgcg	180
gggtcagtg	gtggacctgc	gcctgcgctg	cgacggcgag	gcagactgtc	aggaccgctc	240
agacgaggtg	gactgtgacg	gtgaggccct	cc			272

<210> 58

<211> 134

<212> DNA

<213> Homo sapiens

<400> 58

tctccttgca	gccatctgcc	tgcccaacca	gttccggtgt	gcgagcggcc	agtgtgtcct	60
catcaaacag	cagtgcgact	ccttccccga	ctgtatcgac	ggctccgacg	agctcatgtg	120
tggtagacca	gctt					134

<210> 59

<211> 274

<212> DNA

<213> Homo sapiens

<400> 59

gtttgtctct	ggcagaaatc	accaagccgc	cctcagacga	cagcccggcc	cacagcagtg	60
ccatcgggcc	cgtcattggc	atcatcctct	ctctcttcgt	catgggtggg	gtctattttg	120
tgtgccagcg	cgtgggtgtg	cagcgctatg	cgggggccaa	cgggcccttc	ccgcacgagt	180
atgtcagcgg	gaccccgac	gtgcccctca	atttcatagc	cccgggcggg	tcccagcatg	240
gcccccttcac	aggtaaggag	cctgagatat	ggaa			274

<210> 60

<211> 164

<212> DNA

<213> Homo sapiens

<400> 60

cttccctgcc	aggcatcgca	tgcgaaagt	ccatgatgag	ctccgtgagc	ctgatggggg	60
gccggggcgg	ggtgcccctc	tacgaccgga	accacgtcac	aggggcctcg	tccagcagct	120
cgtccagcac	gaaggccacg	ctgtaccgcg	cggtaggggg	cggg		164

<210> 61
 <211> 130
 <212> DNA
 <213> Homo sapiens

<400> 61
 ttggctctcc tcagatcctg aaccgcgcgc cctccccggc cacggacccc tccctgtaca 60
 acatggacat gttctactct tcaaacattc cggccactgc gagaccgtac aggtaggaca 120
 tccccctgcag 130

<210> 62
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 62
 tcaaacattc cggccactgc gagaccgtac aggccctaca tcattcgagg aatggcgccc 60
 ccgacgacgc cctgcagcac cgacgtgtgt gacagcgact acagcgccag ccgctggaag 120
 gccagcaagt actacctgga tttgaactcg gactcagacc cctatccacc cccaccacg 180
 cccacagacc agtacctgtc ggcgaggagc agctgcccgc cctcgcccgc caccgagagg 240
 agctacttcc atctcttccc gccccctccg tccccctgca cggactcatc ctgacctcgg 300
 ccggggccact ctggcttctc tgtgccccctg taaatagttt taaatatgaa caaagaaaaa 360
 aatatatattt atgattttaa aaataaatat aattgggatt ttaaaaacat gagaaatgtg 420
 aactgtgatg ggggtgggcag ggctgggaga actttgtaca gtggagaaat atttataaac 480
 ttaattttgt aaaaca 496

<210> 63
 <211> 17
 <212> DNA
 <213> Zmax1

<400> 63
 agactggggt gagacgc 17

<210> 64
 <211> 19
 <212> DNA
 <213> Zmax1

<400> 64
 cagactgggt tgagacgcc 19

<210> 65
 <211> 24
 <212> DNA
 <213> Homo sapiens

<400> 65
 cccgtgtgct ccgcgcacca gttc 24

<210> 66

<211> 25
<212> DNA
<213> Homo sapiens

<400> 66
ggctcacgga gctcatcatg gactt 25

<210> 67
<211> 502
<212> DNA
<213> Homo sapiens

<400> 67
cccgtgtgct ccgccgccca gttcccctgc gcgcgggggc agtgtgtgga cctgcgcctg 60
cgctgcgacg gcgaggcaga ctgtcaggac cgctcagacg aggtggactg tgacgccatc 120
tgcttgcgcc accagttccg gtgtgcgagc ggccagtgtg tctcatcaa acagcagtgc 180
gactccttcc ccgactgtat cgacggctcc gacgagctca tgtgtgaaat caccaagccg 240
ccctcagacg acagcccggc ccacagcagt gccatcgggc ccgtcattgg catcatcctc 300
tctctcttcg tcatgggtgg tgtctatatt gtgtgccage gcgtgggtgt ccagecgtat 360
gcgggggcca acggggccct cccgcacgag tatgtcagcg ggaccccgca cgtgcccctc 420
aatttcatag ccccgggcgg ttcccagcat ggccccttca caggcatcgc atgcggaaag 480
tccatgatga gtcctgtgag cc 502

<210> 68
<211> 21
<212> DNA
<213> Mouse

<400> 68
agcgaggcca ccatccacag g 21

<210> 69
<211> 21
<212> DNA
<213> Mouse

<400> 69
tcgctgggtcg gcataatcaa t 21

<210> 70
<211> 501
<212> DNA
<213> Mouse

<400> 70
agcagagcca ccatccacag gatctccctg gagactaaca acaacgatgt ggctatccca 60
ctcacgggtg tcaaagaggc ctctgcactg gactttgatg tgtccaacaa tcacatctac 120
tggaactgat ttagcctcaa gacgatcagc cgagccttca tgaatgggag ctcagtggag 180
cacgtgattg agtttggcct cgactaccct gaaggaatgg ctgtggactg gatgggcaag 240
aacctctatt gggcggacac agggaccaac aggattgagg tggcccggct ggatgggcag 300
ttccggcagg tgcttgtgtg gagagacctt gacaacccca ggtctctggc tctggatcct 360

actaaaggct acatctactg gactgagtgg ggtggcaagc caaggattgt gcgggccttc 420
 atggatggga ccaattgtat gacactggta gacaagggtg gccggggccaa cgacctcacc 480
 attgattatg ccgaccagcg a 501

<210> 71
 <211> 25
 <212> RNA
 <213> Zmax1

<400> 71
 aguacagcuu cuugccaacc caguc 25

<210> 72
 <211> 25
 <212> RNA
 <213> Zmax1

<400> 72
 uccuccaggu cgauggucag cccau 25

<210> 73
 <211> 25
 <212> RNA
 <213> Zmax1

<400> 73
 gucugagucc gaguucuuau ccagg 25

<210> 74
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 74
 ttttgggtac acaattcagt cg 22

<210> 75
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 75
 aaaactgtgg gtgcttctgg 20

<210> 76

<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 76
gtgattgagc caatcctgag a 21

<210> 77
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 77
tgagccaaat aaaccccttc t 21

<210> 78
<211> 20
<212> DNA
<213> Homo sapiens

<400> 78
ctggactacg tggccttctc 20

<210> 79
<211> 19
<212> DNA
<213> Homo sapiens

<400> 79
ttcagaagca cttggctgg 19

<210> 80
<211> 20
<212> DNA
<213> Homo sapiens

<400> 80
ctcagtgccca tgaagatgga 20

<210> 81
<211> 21
<212> DNA
<213> Homo sapiens

<400> 81

caagatcact cgatctccag g	21
<210> 82	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 82	
gtttcaggag actcagagtc	20
<210> 83	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 83	
ttctgcaggt tgctgttgag	20
<210> 84	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 84	
ttattgtgat ttcccgtggc	20
<210> 85	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 85	
gccctctgtc ctgacttcag g	21
<210> 86	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 86	
gagaaagaaa taaggggacc	20
<210> 87	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 87	
tgctttgtaa agcactgaga	20
<210> 88	

<211> 24
 <212> DNA
 <213> Homo sapiens

<400> 88
 gaagtacggg cagttcagtg gcct 24

<210> 89
 <211> 25
 <212> DNA
 <213> Homo sapiens

<400> 89
 atacaccaag gtccatgttc cccgt 25

<210> 90
 <211> 25
 <212> DNA
 <213> Homo sapiens

<400> 90
 agcctggggcc acagcgtgag actac 25

<210> 91
 <211> 25
 <212> DNA
 <213> Homo sapiens

<400> 91
 tcccggagct tgcacacccg cttca 25

<210> 92
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 92
 catgtgcca cctcattcat 20

<210> 93
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 93
 caagattctg tagcttctgg 20

<210> 94
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 94 cagagaagtc aagggacttg	20
<210> 95 <211> 20 <212> DNA <213> Homo sapiens	
<400> 95 atcctctcac atcccacact	20
<210> 96 <211> 20 <212> DNA <213> Homo sapiens	
<400> 96 caaggctaaa agacgaaaaa	20
<210> 97 <211> 20 <212> DNA <213> Homo sapiens	
<400> 97 tcaggagcat ttcattcttt	20
<210> 98 <211> 19 <212> DNA <213> Homo sapiens	
<400> 98 aagtcgaggc tgcaaggag	19
<210> 99 <211> 20 <212> DNA <213> Homo sapiens	
<400> 99 gccctgtggt cctttcagta	20
<210> 100 <211> 19 <212> DNA <213> Homo sapiens	
<400> 100 aaggtgtgag gatcactgg	19

<210> 101	
<211> 17	
<212> DNA	
<213> Homo sapiens	
<400> 101	
agctcatggg ggctatt	17
<210> 102	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 102	
gcttctccga gtgtatcaac	20
<210> 103	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 103	
atggcagagg acttagaaca	20
<210> 104	
<211> 24	
<212> DNA	
<213> Homo sapiens	
<400> 104	
gatcagcgaa cttcctctcg gctc	24
<210> 105	
<211> 24	
<212> DNA	
<213> Homo sapiens	
<400> 105	
tccacattga ggactgtggg aacg	24
<210> 106	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 106	
gctaatacaca gtctaaccga	20
<210> 107	
<211> 19	
<212> DNA	

<213> Homo sapiens	
<400> 107	
ttgcactgtc ttggatgca	19
<210> 108	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 108	
gcacagctgt agtggggttc taggc	25
<210> 109	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 109	
caggcgcaaa ggacatgcac acggc	25
<210> 110	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 110	
caccgatgag tgcacgttca aggag	25
<210> 111	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 111	
cagacagaga tgctccacgc catac	25
<210> 112	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 112	
tttctgggtg tgtctgaat	19
<210> 113	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 113	

acacagttgc tctaaaggg	20
<210> 114	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 114	
catttgggaa atccagaaga	20
<210> 115	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 115	
taggtgtcctt attttttggt gcttc	25
<210> 116	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 116	
gacataccat gaacactata agagg	25
<210> 117	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 117	
caaccatac cagggataag	20
<210> 118	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 118	
gaacaagagg ggtaagttgg c	21
<210> 119	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 119	
tgaggacaca gatactgatg gg	22
<210> 120	

<211> 25
 <212> DNA
 <213> Homo sapiens

<400> 120
 gaagtgttcc ctcttaaatt ctttg 25

<210> 121
 <211> 25
 <212> DNA
 <213> Homo sapiens

<400> 121
 gaactatatt gtagttagtg aggag 25

<210> 122
 <211> 18
 <212> DNA
 <213> Homo sapiens

<400> 122
 cctgtaaccc ccagtc 18

<210> 123
 <211> 22
 <212> DNA
 <213> Homo sapiens

<400> 123
 tcttgcttcc taagtttctc gg 22

<210> 124
 <211> 21
 <212> DNA
 <213> Homo sapiens

<400> 124
 actccatcca cctcatcact g 21

<210> 125
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 125
 tgctgtttgc ctcatctgac 20

<210> 126
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 126 gtggacaggc atagctgagg	20
<210> 127 <211> 21 <212> DNA <213> Homo sapiens	
<400> 127 tgttcactct tctgctgca g	21
<210> 128 <211> 20 <212> DNA <213> Homo sapiens	
<400> 128 agctggactc tcacagaatg	20
<210> 129 <211> 20 <212> DNA <213> Homo sapiens	
<400> 129 caagaggctg gtagaagggtg	20
<210> 130 <211> 24 <212> DNA <213> Homo sapiens	
<400> 130 gactccagtc tgggcaataa aagc	24
<210> 131 <211> 22 <212> DNA <213> Homo sapiens	
<400> 131 ggtggcagca tgacctctaa ag	22
<210> 132 <211> 16 <212> DNA <213> Homo sapiens	
<400> 132 caggcccagt ctcttg	16

<210> 133	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 133	
cgtgtccaga tgaaagtg	18
<210> 134	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 134	
acctcacggt gtaatccc	18
<210> 135	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 135	
cttgaagccc atctttgc	18
<210> 136	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 136	
tatttgcaaa gcttgagact tct	23
<210> 137	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 137	
aatcactgtg ctttgttgcc	20
<210> 138	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 138	
actttattgt cagcgtgggc	20
<210> 139	
<211> 18	
<212> DNA	

<213> Homo sapiens	
<400> 139	
actccctcga tggcttcc	18
<210> 140	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 140	
gagcagggga gagaaggc	18
<210> 141	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 141	
cccactggct tgttttattg	20
<210> 142	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 142	
agccacttta ttgttatttt gatgc	25
<210> 143	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 143	
aagagtgaac aaaagcaaac atacc	25
<210> 144	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 144	
gtggagtgtg ggattggg	18
<210> 145	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 145	

tactgttctt gataagtatg tcggc	25
<210> 146	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 146	
atgcttttgc atgattctaa ttatt	25
<210> 147	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 147	
tcccccaaaa gaatgtaaag g	21
<210> 148	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 148	
ctggctcttc ttgtgtgctg	20
<210> 149	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 149	
atcaccagcag ccagggat	18
<210> 150	
<211> 24	
<212> DNA	
<213> Homo sapiens	
<400> 150	
tcagaagcag aactgttttt aaca	24
<210> 151	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 151	
cctgcttgaa agttctagag cc	22
<210> 152	

<211> 21
 <212> DNA
 <213> Homo sapiens

 <400> 152
 caagcccggg ttttattgaa a 21

 <210> 153
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 153
 gatgccagga ccatggac 18

 <210> 154
 <211> 24
 <212> DNA
 <213> Homo sapiens

 <400> 154
 gcatatagaa acaatttatt gccg 24

 <210> 155
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 155
 ctctgaagca gggaccagag 20

 <210> 156
 <211> 19
 <212> DNA
 <213> Homo sapiens

 <400> 156
 ctaccacacc acaccaggc 19

 <210> 157
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 157
 caagcgaaag ctgccttc 18

 <210> 158
 <211> 23
 <212> DNA
 <213> Homo sapiens

<400> 158 gttgtcttga cttcaggtct gtc	23
<210> 159 <211> 24 <212> DNA <213> Homo sapiens	
<400> 159 ttttccttca acaatcacta ctcc	24
<210> 160 <211> 20 <212> DNA <213> Homo sapiens	
<400> 160 gcgtggggat atagaggtca	20
<210> 161 <211> 20 <212> DNA <213> Homo sapiens	
<400> 161 tacgtggcca agaagctagg	20
<210> 162 <211> 24 <212> DNA <213> Homo sapiens	
<400> 162 taatatatcc ccagtctaag gcat	24
<210> 163 <211> 18 <212> DNA <213> Homo sapiens	
<400> 163 agcttgcaga tggagccc	18
<210> 164 <211> 25 <212> DNA <213> Homo sapiens	
<400> 164 tggttttaaa cctttaatga gaaaa	25

<210> 165	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 165	
tggtgatcta taccctgttt ccg	23
<210> 166	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 166	
aattatttaa aagagaggaa aggca	25
<210> 167	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 167	
tggctgtgaa cttcctctga	20
<210> 168	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 168	
ggttacagaa aaacatttga gagat	25
<210> 169	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 169	
tgagctttag ttcccttctc tg	22
<210> 170	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 170	
ttgaaaaacc atttatttca ccg	23
<210> 171	
<211> 18	
<212> DNA	

<213> Homo sapiens	
<400> 171	
tctgcggctg ttggattt	18
<210> 172	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 172	
ttgaaaaacc atttatttca ccg	23
<210> 173	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 173	
tgttctcttc tcccagcagg	20
<210> 174	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 174	
ctttattgaa aacattgagt gca	23
<210> 175	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 175	
ttgtcaaatt ccccccaaaa	20
<210> 176	
<211> 16	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> 12	
<223> n = A,T,C or G	
<400> 176	
aaaccacgac cnccaa	16
<210> 177	

<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 177	
ccctggaaag gtaagatgct	20
<210> 178	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 178	
cttttggtag agacaaggct tca	23
<210> 179	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 179	
tatctgtctg tagtgcttca aatgt	25
<210> 180	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 180	
gacgaagggtg attcagggc	19
<210> 181	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 181	
actgaagaac tcttgtcct	19
<210> 182	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 182	
cagataaaaag agtcactatg gctca	25
<210> 183	
<211> 20	
<212> DNA	
<213> Homo sapiens	

<400> 183 cactttctccc actttgtccc	20
<210> 184 <211> 25 <212> DNA <213> Homo sapiens	
<400> 184 ttattgataa gcattagtga accccc	25
<210> 185 <211> 20 <212> DNA <213> Homo sapiens	
<400> 185 tggcaagtta ggcacagtca	20
<210> 186 <211> 21 <212> DNA <213> Homo sapiens	
<400> 186 ctatgcccag agatgaacag g	21
<210> 187 <211> 20 <212> DNA <213> Homo sapiens	
<400> 187 tccactaagg gctatgtcgc	20
<210> 188 <211> 24 <212> DNA <213> Homo sapiens	
<400> 188 gccagcttta ttgagtaaac ttcc	24
<210> 189 <211> 22 <212> DNA <213> Homo sapiens	
<400> 189 cactggagac tacaagtggg gg	22

<210> 190	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 190	
catcccaacc atcactcagt	20
<210> 191	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 191	
ggggactagc ttacagattt ga	22
<210> 192	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 192	
agactacatt ttggaaccag tgg	23
<210> 193	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 193	
tgaaaggata tttatagcct gga	23
<210> 194	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 194	
gaaggttttg tccctcgatc	20
<210> 195	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 195	
tgagggttgg gaagatcata	20
<210> 196	
<211> 18	
<212> DNA	

<213> Homo sapiens	
<400> 196	
ccttcatagc cacacccg	18
<210> 197	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 197	
cagctaactg ttgacatgcc a	21
<210> 198	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 198	
tctttactgt gcttacaact ttcct	25
<210> 199	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 199	
caacagtgca gtcggtatcg	20
<210> 200	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 200	
agatcagcaa gcagatag	18
<210> 201	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 201	
cattccacat ggatagac	18
<210> 202	
<211> 24	
<212> DNA	
<213> Homo sapiens	
<400> 202	

catacctatg aggtgtgcta cagg	24
<210> 203	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 203	
gcattttctc atcatccttg c	21
<210> 204	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 204	
ttacagccac caaggtttcc	20
<210> 205	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 205	
aggtgtgtgt gccaggttga	20
<210> 206	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 206	
cactgttatc tcattaactg tgagg	25
<210> 207	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 207	
tttgattttg tgtctcccaa a	21
<210> 208	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 208	
ccccactccc acttttattt	20
<210> 209	

<211> 24
 <212> DNA
 <213> Homo sapiens

 <400> 209
 ccagtcacct ttactagtcc ttg 24

 <210> 210
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 210
 aggacacagc ctgcatctag 20

 <210> 211
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 211
 accaggcatt gcactaaaag 20

 <210> 212
 <211> 22
 <212> DNA
 <213> Homo sapiens

 <400> 212
 gatgggtcac actaacctgt ca 22

 <210> 213
 <211> 24
 <212> DNA
 <213> Homo sapiens

 <400> 213
 acatttatat ttggacatgc aacc 24

 <210> 214
 <211> 22
 <212> DNA
 <213> Homo sapiens

 <400> 214
 agcatcttta atgtgtcagg ca 22

 <210> 215
 <211> 18
 <212> DNA
 <213> Homo sapiens

<400> 215 atgtgctggg ctggaaag	18
<210> 216 <211> 20 <212> DNA <213> Homo sapiens	
<400> 216 tcacattcaa aaatcggcaa	20
<210> 217 <211> 18 <212> DNA <213> Homo sapiens	
<400> 217 ctgcctgtgt ggtgtcgc	18
<210> 218 <211> 25 <212> DNA <213> Homo sapiens	
<400> 218 tgttttattt ctcagtacaa agcca	25
<210> 219 <211> 19 <212> DNA <213> Homo sapiens	
<400> 219 gacctcctgt gacaccacg	19
<210> 220 <211> 25 <212> DNA <213> Homo sapiens	
<400> 220 ccaccaaatt atttatagtt ctgcg	25
<210> 221 <211> 23 <212> DNA <213> Homo sapiens	
<400> 221 gtaagattct ccactgttgc acc	23

<210> 222	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 222	
cctataatgg gctggaccaa	20
<210> 223	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 223	
actcctcatg tgaagtcacc g	21
<210> 224	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 224	
cagtgtgcac gttttcattt	20
<210> 225	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 225	
cagcatcttc agcacttacc	20
<210> 226	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 226	
ctgcatttat tatgagaatc aacag	25
<210> 227	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 227	
tgctgctggg agtcagagtc	20
<210> 228	
<211> 23	
<212> DNA	

<213> Homo sapiens	
<400> 228	
cagggcactg agatacactt acc	23
<210> 229	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 229	
aaggatcaag ccaggcattt g	21
<210> 230	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 230	
acacatctct totgtgcccc	20
<210> 231	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 231	
tgaaccctgg aggcagag	18
<210> 232	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 232	
cattccccag tttgcagac	19
<210> 233	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 233	
gtgctgggat tacaggtgt	19
<210> 234	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 234	

gcagagaagt cctgttagcc	20
<210> 235	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 235	
ccatgctaga gaagcacaac	20
<210> 236	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 236	
agtgtggggc aggacctctg	20
<210> 237	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 237	
cagacagata gccctggggtt c	21
<210> 238	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 238	
tccctcatcc ccttgtctgt	20
<210> 239	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 239	
agccccctg gggataatc	19
<210> 240	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 240	
gatgcttacc taccacggc	19
<210> 241	

<211> 21
 <212> DNA
 <213> Homo sapiens

<400> 241
 aggattccta tctgggctat g 21

<210> 242
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 242
 tggcagacca tgctccgcct 20

<210> 243
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 243
 gagaaggccg ggaggctctg 20

<210> 244
 <211> 25
 <212> DNA
 <213> Homo sapiens

<400> 244
 ctccatcaca accagatttg aggct 25

<210> 245
 <211> 22
 <212> DNA
 <213> Homo sapiens

<400> 245
 ggggtgtgagc tgctgctgaa gg 22

<210> 246
 <211> 25
 <212> DNA
 <213> Homo sapiens

<400> 246
 agtgggaaac ctcaggtagc tcccg 25

<210> 247
 <211> 25
 <212> DNA
 <213> Homo sapiens

<400> 247 cagtttggct cagacatatg ggggc	25
<210> 248 <211> 20 <212> DNA <213> Homo sapiens	
<400> 248 cattagtagt ggggggacag	20
<210> 249 <211> 21 <212> DNA <213> Homo sapiens	
<400> 249 caaagcgaca gtgagttagg g	21
<210> 250 <211> 20 <212> DNA <213> Homo sapiens	
<400> 250 ggagtagacc atgattactg	20
<210> 251 <211> 19 <212> DNA <213> Homo sapiens	
<400> 251 catggtctat ttattctcg	19
<210> 252 <211> 22 <212> DNA <213> Homo sapiens	
<400> 252 cgccctggat cctcacacta ca	22
<210> 253 <211> 21 <212> DNA <213> Homo sapiens	
<400> 253 gggcatcagg ggatgggtag a	21

<210> 254	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 254	
gctcctatct gtgttttgaa tgg	23
<210> 255	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 255	
ccgtggcata gataagtaaa cg	22
<210> 256	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 256	
cttgagcgc tatgaggagg gc	22
<210> 257	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 257	
atggcaactg accttcgctc ctg	23
<210> 258	
<211> 16	
<212> DNA	
<213> Homo sapiens	
<400> 258	
ttggagtcac aggggc	16
<210> 259	
<211> 17	
<212> DNA	
<213> Homo sapiens	
<400> 259	
cagcactatc cttgggg	17
<210> 260	
<211> 21	
<212> DNA	

<213> Homo sapiens

 <400> 260
 aacaaagctg cttagcacct g 21

 <210> 261
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 261
 gatgaggacc aactggtgac 20

 <210> 262
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 262
 ttttccaata atgtgacttc 20

 <210> 263
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 263
 caatcccaac cgtaacaggc 20

 <210> 264
 <211> 19
 <212> DNA
 <213> Homo sapiens

 <400> 264
 cttgatctcg cccaggaac 19

 <210> 265
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 265
 gctcgctgaa ggatgaagac 20

 <210> 266
 <211> 17
 <212> DNA
 <213> Homo sapiens

 <400> 266

gaatcgcttg aaccag	17
<210> 267	
<211> 17	
<212> DNA	
<213> Homo sapiens	
<400> 267	
ccaggtgggc ttaacgg	17
<210> 268	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> misc_feature	
<222> 8	
<223> n = A,T,C or G	
<400> 268	
gaacgttntt catgtaggcg t	21
<210> 269	
<211> 16	
<212> DNA	
<213> Homo sapiens	
<400> 269	
taatggtcgc tgtccc	16
<210> 270	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 270	
agggaaaatg gtatgtgggg ag	22
<210> 271	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 271	
gcagtgtgtg aaggcagg	18
<210> 272	
<211> 24	
<212> DNA	
<213> Homo sapiens	

<400> 272 agtggacaaa atgaggaaaa cagg	24
<210> 273 <211> 23 <212> DNA <213> Homo sapiens	
<400> 273 ccaacacagt ttgctcacat gcc	23
<210> 274 <211> 20 <212> DNA <213> Homo sapiens	
<400> 274 tgacatcttt gcattatggc	20
<210> 275 <211> 20 <212> DNA <213> Homo sapiens	
<400> 275 agttatccca cctgataccg	20
<210> 276 <211> 20 <212> DNA <213> Homo sapiens	
<400> 276 agctcttgct tctcagtgca	20
<210> 277 <211> 24 <212> DNA <213> Homo sapiens	
<400> 277 caaaagttgt ttctgtgttt gttc	24
<210> 278 <211> 22 <212> DNA <213> Homo sapiens	
<400> 278 gcctctcaaa gtagttggaa cc	22

<210> 279
 <211> 23
 <212> DNA
 <213> Homo sapiens

 <400> 279
 tgtgtatcca tagtgcaaaa cag 23

 <210> 280
 <211> 19
 <212> DNA
 <213> Homo sapiens

 <400> 280
 ctcaaggcca ggcatacct 19

 <210> 281
 <211> 19
 <212> DNA
 <213> Homo sapiens

 <400> 281
 ggactcttcc atgccagtg 19

 <210> 282
 <211> 19
 <212> DNA
 <213> Homo sapiens

 <400> 282
 aatgatgatc tcaactctg 19

 <210> 283
 <211> 19
 <212> DNA
 <213> Homo sapiens

 <400> 283
 actgaagaac tcttgtcct 19

 <210> 284
 <211> 23
 <212> DNA
 <213> Homo sapiens

 <400> 284
 gacatctgtt agtctcataa ttc 23

 <210> 285
 <211> 18
 <212> DNA

<213> Homo sapiens	
<400> 285	
ggtaacagtg tcttgctt	18
<210> 286	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 286	
ctatgtacaa aacaggaaga g	21
<210> 287	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 287	
atcctagttt cctctcctt	19
<210> 288	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 288	
gtaaatgaga aacagacaaa tga	23
<210> 289	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 289	
ctattggatg tgatatgtta tgg	23
<210> 290	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 290	
aagtagaaac aaaatgaggg ac	22
<210> 291	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 291	

cctaccccaa ggtaacag	18
<210> 292	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 292	
acttcctata aatggaggtg ag	22
<210> 293	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 293	
gaggagcttc aagaggaa	18
<210> 294	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 294	
catactccta gactcaagga atc	23
<210> 295	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 295	
gaatgatgta catgaattct ttg	23
<210> 296	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 296	
gtggttgagga gaaaagcact	20
<210> 297	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 297	
ctcccagtag tcacattcc	19
<210> 298	

<211> 23
 <212> DNA
 <213> Homo sapiens

 <400> 298
 caagttacaa ataacttaag ccg 23

 <210> 299
 <211> 23
 <212> DNA
 <213> Homo sapiens

 <400> 299
 caagacccta tctctacaaa aac 23

 <210> 300
 <211> 24
 <212> DNA
 <213> Homo sapiens

 <400> 300
 tttattagaa gtgactcttg gccc 24

 <210> 301
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 301
 gactacctgc cctcagcttg 20

 <210> 302
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 302
 ttctcatgta caaagcggtc 20

 <210> 303
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 303
 ccactggctt ctctcttttt 20

 <210> 304
 <211> 18
 <212> DNA
 <213> Homo sapiens

<400> 304 caccagaagg ttgggggtg	18
<210> 305 <211> 21 <212> DNA <213> Homo sapiens	
<400> 305 actattacga catgaacgcg g	21
<210> 306 <211> 18 <212> DNA <213> Homo sapiens	
<400> 306 ctcatgctgg atgacccc	18
<210> 307 <211> 24 <212> DNA <213> Homo sapiens	
<400> 307 ttgcctttct tgaaacttaa ttcc	24
<210> 308 <211> 19 <212> DNA <213> Homo sapiens	
<400> 308 tcacagcctt cagtcaggg	19
<210> 309 <211> 18 <212> DNA <213> Homo sapiens	
<400> 309 acatgctgtg gcaccatg	18
<210> 310 <211> 18 <212> DNA <213> Homo sapiens	
<400> 310 cctgagctac tgccacag	18

<210> 311	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 311	
ccctgacttg gacagtgtcc	20
<210> 312	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 312	
tcagagtcac tcctgccc	18
<210> 313	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 313	
caaattcaag ctcatccaga cc	22
<210> 314	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 314	
cggcatttca tccaggac	18
<210> 315	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 315	
ggtgtaggag gtgcgacaat	20
<210> 316	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 316	
ttccatttat tgagcacctg	20
<210> 317	
<211> 20	
<212> DNA	

<213> Homo sapiens	
<400> 317	
cttaagccac tgtgttttgg	20
<210> 318	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 318	
cctcctacac ctgcaaaagc	20
<210> 319	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 319	
tggaagaacc ccagaggac	19
<210> 320	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 320	
aaagcacaaa agtaacagca aca	23
<210> 321	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 321	
gtgtgtgggc cacaatattg	20
<210> 322	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 322	
agagcacctt tcctcagcac	20
<210> 323	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 323	

agaatctcat cacaggggcg	20
<210> 324	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 324	
aaaaaggaca gtgtctaaaa tttga	25
<210> 325	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 325	
aattgttttt gtttgttttt tgagt	25
<210> 326	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 326	
gatttaggga gtacaagtgc gg	22
<210> 327	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 327	
ggggacaaat tatactttat tcagg	25
<210> 328	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 328	
ccatcatcat attggtgtga cc	22
<210> 329	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 329	
tggctgccca agaagaag	18
<210> 330	

<211> 24	
<212> DNA	
<213> Homo sapiens	
<400> 330	24
ttaagatgcc attaaactca tgac	
<210> 331	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 331	20
ccaaggagat gaccaagtgg	
<210> 332	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 332	22
ccatctcttt tatcaggggtt gg	
<210> 333	
<211> 24	
<212> DNA	
<213> Homo sapiens	
<400> 333	24
ctctgtgcaa gtaagcatct taca	
<210> 334	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 334	20
cgactgtgta ttttccacag	
<210> 335	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 335	20
agaagcccat atcaatgcac	
<210> 336	
<211> 23	
<212> DNA	
<213> Homo sapiens	

<400> 336 agcttaaagt aggacaacca tgg	23
<210> 337 <211> 20 <212> DNA <213> Homo sapiens	
<400> 337 ggatgcttca ctccagaaag	20
<210> 338 <211> 21 <212> DNA <213> Homo sapiens	
<400> 338 tggtgtttat ttccacctgc c	21
<210> 339 <211> 18 <212> DNA <213> Homo sapiens	
<400> 339 agagtggctg caggccag	18
<210> 340 <211> 25 <212> DNA <213> Homo sapiens	
<400> 340 tttttttttt tacacgaatt tgagg	25
<210> 341 <211> 23 <212> DNA <213> Homo sapiens	
<400> 341 tgaggaagta aaaacaggtc atc	23
<210> 342 <211> 23 <212> DNA <213> Homo sapiens	
<400> 342 atgaaatctt aagcagaatc cca	23

<210> 343
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 343
 cacagagtcc cagggctctgt 20

 <210> 344
 <211> 25
 <212> DNA
 <213> Homo sapiens

 <400> 344
 aaaggccttt atttatctct ctctg 25

 <210> 345
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 345
 gcctcagagc tgggtgggt 18

 <210> 346
 <211> 25
 <212> DNA
 <213> Homo sapiens

 <400> 346
 gcttctaagt cttagagtca gctgg 25

 <210> 347
 <211> 19
 <212> DNA
 <213> Homo sapiens

 <400> 347
 agcccacagt cagcctacc 19

 <210> 348
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 348
 ttggttaa at gatgccaga 20

 <210> 349
 <211> 18
 <212> DNA

<213> Homo sapiens	
<400> 349	
tggtcccact cacatccc	18
<210> 350	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 350	
acacagcatg cagggagag	19
<210> 351	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 351	
atccctggtg cttagggtgg	19
<210> 352	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 352	
gatggaagta gtcctctcgc g	21
<210> 353	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 353	
ggaaggccag caagtactac c	21
<210> 354	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 354	
ccggtgcttg gaaagatg	18
<210> 355	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 355	

gaagtgtctc tgttggggga	20
<210> 356	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 356	
ttacaggcat gagtcactac gc	22
<210> 357	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 357	
accactctca cagcccttac a	21
<210> 358	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 358	
ccctccctcc acacacac	18
<210> 359	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 359	
gctcactgaa ctttcagggc	20
<210> 360	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 360	
agatacgggc aaaacactgg	20
<210> 361	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 361	
gttgaatata gagcagggcc c	21
<210> 362	

<211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 362
 ttctgaggtc agggctgtct 20

 <210> 363
 <211> 21
 <212> DNA
 <213> Homo sapiens

 <400> 363
 agcttggaat atctcgtgtc a 21

 <210> 364
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 364
 actcagtccc tcccaccc 18

 <210> 365
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <400> 365
 tcctctcact ccttcccaga 20

 <210> 366
 <211> 19
 <212> DNA
 <213> Homo sapiens

 <400> 366
 gtgatcacgg ctcaacctg 19

 <210> 367
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 367
 tggaggactg cttgagcc 18

 <210> 368
 <211> 19
 <212> DNA
 <213> Homo sapiens

<400> 368 ctgcagctgc ctcagtttc	19
<210> 369 <211> 20 <212> DNA <213> Homo sapiens	
<400> 369 tcaaaagtgc tggtgacagc	20
<210> 370 <211> 20 <212> DNA <213> Homo sapiens	
<400> 370 atttccagag ccagctcaaa	20
<210> 371 <211> 25 <212> DNA <213> Homo sapiens	
<400> 371 ctttaatgtt gtgatgacac aaagc	25
<210> 372 <211> 20 <212> DNA <213> Homo sapiens	
<400> 372 gatcatgcac tggtgaccac	20
<210> 373 <211> 25 <212> DNA <213> Homo sapiens	
<400> 373 tacatttgaa acatttaaaa cctga	25
<210> 374 <211> 24 <212> DNA <213> Homo sapiens	
<400> 374 aactgagctg taaccagact gggga	24

<210> 375	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 375	
tggaacagtc tggtcctgat gg	22
<210> 376	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 376	
ttatcccttt attgtttctc ctttg	25
<210> 377	
<211> 24	
<212> DNA	
<213> Homo sapiens	
<400> 377	
tggtcacctg tattttattgc tagg	24
<210> 378	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 378	
tcttcaaagc ctctgcagta cc	22
<210> 379	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 379	
ctcatctcca acctgtctaa cc	22
<210> 380	
<211> 24	
<212> DNA	
<213> Homo sapiens	
<400> 380	
gtggctgcag ctaatgtaag acac	24
<210> 381	
<211> 24	
<212> DNA	

<213> Homo sapiens	
<400> 381	
cagcagagac aatggcgtaa gtcc	24
<210> 382	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 382	
ctgattgaga accagaacag	20
<210> 383	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 383	
taaagcccta taacctctcc	20
<210> 384	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 384	
tagtaaggga ccttcaccag	20
<210> 385	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 385	
agatgtttgg tatgacttgg	20
<210> 386	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 386	
gatgattaaa ctctcctggc	20
<210> 387	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 387	

gagacagcta agcactcatg	20
<210> 388	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 388	
gaggtggtgg gcacctgta	19
<210> 389	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 389	
agaggggagg aacacacctt	20
<210> 390	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 390	
gaccagagtc tgcccagaag	20
<210> 391	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 391	
tccccagctc tatcccaac	19
<210> 392	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 392	
ggagggatgg acaagtctga	20
<210> 393	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 393	
gtccagctcg ctgactatcc	20
<210> 394	

<211> 20
 <212> DNA
 <213> Homo sapiens

<400> 394
 tcaaaacaca gtcattctcca 20

<210> 395
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 395
 gcaaaggctt taccatattg 20

<210> 396
 <211> 16
 <212> DNA
 <213> Homo sapiens

<400> 396
 gctcagcacc cccatt 16

<210> 397
 <211> 16
 <212> DNA
 <213> Homo sapiens

<400> 397
 tccctgctcg ggaaac 16

<210> 398
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 398
 gttctccaga gagacagcac 20

<210> 399
 <211> 19
 <212> DNA
 <213> Homo sapiens

<400> 399
 gagagcaaca ctattgccc 19

<210> 400
 <211> 21
 <212> DNA
 <213> Homo sapiens

<400> 400 tatagacttc agccctgctg c	21
<210> 401 <211> 20 <212> DNA <213> Homo sapiens	
<400> 401 cctctgtagg atgcagttgg	20
<210> 402 <211> 20 <212> DNA <213> Homo sapiens	
<400> 402 ttgctacgca ctcctctact	20
<210> 403 <211> 20 <212> DNA <213> Homo sapiens	
<400> 403 gtgaaggcag gaaatgtgac	20
<210> 404 <211> 20 <212> DNA <213> Homo sapiens	
<400> 404 atcctagacc agaggagccc	20
<210> 405 <211> 20 <212> DNA <213> Homo sapiens	
<400> 405 ctccccctgg tccagttatt	20
<210> 406 <211> 20 <212> DNA <213> Homo sapiens	
<400> 406 aactttcatt tgccaagggga	20

<210> 407
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 407
 agcagatctg ctcttgcat 20

<210> 408
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 408
 acagttgtca tcggtaggca 20

<210> 409
 <211> 22
 <212> DNA
 <213> Homo sapiens

<400> 409
 aaaagtatga atgggatgga gc 22

<210> 410
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 410
 gtgcaggtgg cgtttatttt 20

<210> 411
 <211> 21
 <212> DNA
 <213> Homo sapiens

<400> 411
 ccctatatct ccgtgtgctc c 21

<210> 412
 <211> 21
 <212> DNA
 <213> Homo sapiens

<400> 412
 gctctagtgg gaaacctcag g 21

<210> 413
 <211> 20
 <212> DNA

<213> Homo sapiens	
<400> 413	
gaattccagg ctcttgcttg	20
<210> 414	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 414	
ggttttgtct caaaggcaaa	20
<210> 415	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 415	
ccagtacatg gtggtcacca	20
<210> 416	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 416	
gctgccttgg aatttctggt	20
<210> 417	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 417	
gtgctgtggt ggggaaag	18
<210> 418	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 418	
attcaagctc atccagaccc	20
<210> 419	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 419	

ggactggccc ttgaaactc	20
<210> 420	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 420	
atattgaccg tgcacaaata cg	22
<210> 421	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 421	
agacctggga aaagtggaga a	21
<210> 422	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 422	
attggcagtg gaaaatgctt	20
<210> 423	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 423	
ttaatctttt gtcaacttcc tgatt	25
<210> 424	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 424	
tctgtcctcc tttcaccgga agc	23
<210> 425	
<211> 29	
<212> DNA	
<213> Homo sapiens	
<400> 425	
ggataaagaa actccgctct gctggtaga	29
<210> 426	

<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 426	
tcagggcctg tggtgccgca ctctg	25
<210> 427	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 427	
agcgatgtaa aggtaccag tgccg	25
<210> 428	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 428	
aggcatgcaa gcttctta	18
<210> 429	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 429	
ccgggaggag acatctat	18
<210> 430	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 430	
tggttaagcac agaaaatgc	19
<210> 431	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 431	
aatggatggg ggattatt	18
<210> 432	
<211> 18	
<212> DNA	
<213> Homo sapiens	

<400> 432 ctggacgtta tgtctgcc	18
<210> 433 <211> 18 <212> DNA <213> Homo sapiens	
<400> 433 agaggcccag tcacagat	18
<210> 434 <211> 19 <212> DNA <213> Homo sapiens	
<400> 434 atcactctga actgccact	19
<210> 435 <211> 20 <212> DNA <213> Homo sapiens	
<400> 435 cccttctgtt tttctgtttt	20
<210> 436 <211> 18 <212> DNA <213> Homo sapiens	
<400> 436 caagctttga aggaagag	18
<210> 437 <211> 19 <212> DNA <213> Homo sapiens	
<400> 437 taggacgtta agtgaggac	19
<210> 438 <211> 18 <212> DNA <213> Homo sapiens	
<400> 438 gctctgcagt gggtaaaa	18

<210> 439	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 439	
actctccaag actgtgcg	18
<210> 440	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 440	
ccctttctga ggcaagat	18
<210> 441	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 441	
gaccacctgg gagagaac	18
<210> 442	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 442	
cgctatgagt cccatctg	18
<210> 443	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 443	
gacagctgc aatgaagg	18
<210> 444	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 444	
ttgagtacac ggggtgac	18
<210> 445	
<211> 18	
<212> DNA	

<213> Homo sapiens	
<400> 445	
cgcaggactg aaagatga	18
<210> 446	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 446	
acctgtctcc tctcctgg	18
<210> 447	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 447	
tgcttttctt ctgtggga	18
<210> 448	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 448	
atgaccagca agcattgt	18
<210> 449	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 449	
gtactgggat tacaggcg	18
<210> 450	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 450	
gcagaaggtc ctttggat	18
<210> 451	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 451	

tttgcaggat tcatgctt	18
<210> 452	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 452	
cgacattctt ttctggagg	19
<210> 453	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 453	
acctttgcat gttggtttt	19
<210> 454	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 454	
gcacttttcc ttccttcc	18
<210> 455	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 455	
tgctttgctt tcttctgg	18
<210> 456	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 456	
acagctccag agagaagga	19
<210> 457	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 457	
gcagtcactt gaaaccaga	19
<210> 458	

<211> 18
 <212> DNA
 <213> Homo sapiens

<400> 458
 aggcatcaag ctttcctt 18

<210> 459
 <211> 18
 <212> DNA
 <213> Homo sapiens

<400> 459
 ggtttagaga accgagcc 18

<210> 460
 <211> 18
 <212> DNA
 <213> Homo sapiens

<400> 460
 gtggtgctgc aagttacc 18

<210> 461
 <211> 18
 <212> DNA
 <213> Homo sapiens

<400> 461
 ggaatccctt tctttcca 18

<210> 462
 <211> 18
 <212> DNA
 <213> Homo sapiens

<400> 462
 gaccatttgt tacgcagc 18

<210> 463
 <211> 19
 <212> DNA
 <213> Homo sapiens

<400> 463
 gatgggtgtg aatgaacaa 19

<210> 464
 <211> 19
 <212> DNA
 <213> Homo sapiens

<400> 464	
ctcaagcttc tggtcatgc	19
<210> 465	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 465	
gctgtgagtg tcttggct	18
<210> 466	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 466	
tacagaaaac cgcagctc	18
<210> 467	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 467	
gccaccaaag gaaagatt	18
<210> 468	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 468	
aaaaggaggg aatcatgg	18
<210> 469	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 469	
tcacttagca ggaggcag	18
<210> 470	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 470	
ctgagcatcc gatgagac	18

<210> 471
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 471
 gtgcaaaatg agcagctt 18

 <210> 472
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 472
 tctaaccctt tactgggc 18

 <210> 473
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 473
 tcctcaaact gggaatga 18

 <210> 474
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 474
 ttacacagg accaggga 18

 <210> 475
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 475
 atctccccca ctcagaag 18

 <210> 476
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 476
 gtccacgggc tttattct 18

 <210> 477
 <211> 22
 <212> DNA

<213> Homo sapiens	
<400> 477	
tgagcataaa tttcattagc tg	22
<210> 478	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 478	
ggaagagcaa aataaatcca	20
<210> 479	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 479	
ggtgcacaga attgttcat	19
<210> 480	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 480	
agcacgctta tttcatgg	18
<210> 481	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 481	
gtaacaccag cagggaca	18
<210> 482	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 482	
tcctgctgca ttatggat	18
<210> 483	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 483	

gggggtgaga agtaggaa	18
<210> 484	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 484	
atggggatta aatacggg	18
<210> 485	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 485	
agctagcatt gggctctt	18
<210> 486	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 486	
ctgaggagaa gaggctgg	18
<210> 487	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 487	
cgccttaciaa ggcaagta	18
<210> 488	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 488	
aggatgcttg ctagggtt	18
<210> 489	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 489	
cacaagtgtc tggaaggc	18
<210> 490	

<211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 490
 ggtctcagga gcccttta 18

 <210> 491
 <211> 21
 <212> DNA
 <213> Homo sapiens

 <400> 491
 acatgccact cttctcacta a 21

 <210> 492
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 492
 acttaaccaa ggatgggg 18

 <210> 493
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 493
 caaccacga gcataaga 18

 <210> 494
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 494
 taggctctgc actcttgg 18

 <210> 495
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 495
 acccacggag tctctctc 18

 <210> 496
 <211> 18
 <212> DNA
 <213> Homo sapiens

<400> 496 taaaggcggg gaagtgag	18
<210> 497 <211> 18 <212> DNA <213> Homo sapiens	
<400> 497 ctaccgctct cctaggct	18
<210> 498 <211> 18 <212> DNA <213> Homo sapiens	
<400> 498 tggggccaga taattctt	18
<210> 499 <211> 18 <212> DNA <213> Homo sapiens	
<400> 499 ctggtgtttg gtggtgtt	18
<210> 500 <211> 18 <212> DNA <213> Homo sapiens	
<400> 500 aaggaagagg tcaccagg	18
<210> 501 <211> 18 <212> DNA <213> Homo sapiens	
<400> 501 cacaaattcc atttcca	18
<210> 502 <211> 21 <212> DNA <213> Homo sapiens	
<400> 502 tcaataggtg atccaacatt t	21

<210> 503	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 503	
aaagtccac aaagggtc	18
<210> 504	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 504	
gggtaggggg atcttttt	18
<210> 505	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 505	
tgtggaacat tcattggc	18
<210> 506	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 506	
gtcctgggaa agatggaa	18
<210> 507	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 507	
tcaaagcgtc tcccataa	18
<210> 508	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 508	
tctttcgctg tacttggc	18
<210> 509	
<211> 18	
<212> DNA	

<213> Homo sapiens	
<400> 509	
tgggaggtca gagtgatg	18
<210> 510	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 510	
ggacagtgtg tgtgttggg	19
<210> 511	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 511	
aggcagctgt ttttgtga	18
<210> 512	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 512	
cttcttgagt cccgtgtg	18
<210> 513	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 513	
caaccgagaa tcctctagc	19
<210> 514	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 514	
gctgggagag aatcacao	18
<210> 515	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 515	

gctttgcaga agagacca	18
<210> 516	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 516	
acgctgtcag gtcacact	18
<210> 517	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 517	
ggaggatgct caggtgat	18
<210> 518	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 518	
tagggggatc tttttcca	18
<210> 519	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 519	
gagcaatttg aaaagcca	18
<210> 520	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 520	
atgggccagc tcctctgt	18
<210> 521	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 521	
atagagcacc ccatctcc	18
<210> 522	

<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 522	
aacattgctg ttagccca	18
<210> 523	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 523	
gcaatcgaaa cagcattc	18
<210> 524	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 524	
atgagttggc agctgaag	18
<210> 525	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 525	
aatgaaggtc ttgcctcc	18
<210> 526	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 526	
gaggagaaga tccacaagcg	20
<210> 527	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 527	
tctctggggc atactgaacc	20
<210> 528	
<211> 18	
<212> DNA	
<213> Homo sapiens	

<400> 528 ctgagctttt ggcactgt	18
<210> 529 <211> 18 <212> DNA <213> Homo sapiens	
<400> 529 ctgctaggtg acagcagg	18
<210> 530 <211> 20 <212> DNA <213> Homo sapiens	
<400> 530 tgtatgagtc tggagggtgt	20
<210> 531 <211> 18 <212> DNA <213> Homo sapiens	
<400> 531 acacctggct gaggaaat	18
<210> 532 <211> 18 <212> DNA <213> Homo sapiens	
<400> 532 gcaggggacg tgataata	18
<210> 533 <211> 18 <212> DNA <213> Homo sapiens	
<400> 533 ttttgcttcc taccatgc	18
<210> 534 <211> 18 <212> DNA <213> Homo sapiens	
<400> 534 aaaattgtga gcacctcc	18

<210> 535
<211> 23
<212> DNA
<213> Homo sapiens

<400> 535
tttatattta aagtggcttt gtt

23

<210> 536
<211> 18
<212> DNA
<213> Homo sapiens

<400> 536
gtgcaaagcc cacagtat

18

<210> 537
<211> 18
<212> DNA
<213> Homo sapiens

<400> 537
aggaaaatgc aagagcag

18

<210> 538
<211> 20
<212> DNA
<213> Homo sapiens

<400> 538
ccactgaatt gcatactttg

20

<210> 539
<211> 18
<212> DNA
<213> Homo sapiens

<400> 539
tctgggtcca gtctgcta

18

<210> 540
<211> 18
<212> DNA
<213> Homo sapiens

<400> 540
agattttggg gagtcagg

18

<210> 541
<211> 17
<212> DNA

<213> Homo sapiens	
<400> 541	
gcgctcaagc aattctc	17
<210> 542	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 542	
caagccccaag agtagtca	18
<210> 543	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 543	
gaatcatcca atccacga	18
<210> 544	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 544	
agcctccagg tgactacc	18
<210> 545	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 545	
gaaggacatg gtcagcag	18
<210> 546	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 546	
atgctttcag cattttcg	18
<210> 547	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 547	

tgatccgtgg tagggtta	18
<210> 548	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 548	
gtcggattgg tttcacaa	18
<210> 549	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 549	
ttttatggga atttcagcc	19
<210> 550	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 550	
tttggaaaag aacagaaatg t	21
<210> 551	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 551	
ggctagtctt tcctgaacc	19
<210> 552	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 552	
ccttaatgcc cctgattc	18
<210> 553	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 553	
gcgtttacaa gctgagga	18
<210> 554	

<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 554	
tcaagcttgc tttctcaa	18
<210> 555	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 555	
gtagcccagc aagtgtct	18
<210> 556	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 556	
cctggctgga gataggat	18
<210> 557	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 557	
cttccccctct gcctatgt	18
<210> 558	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 558	
ggcacgtact tcctacca	18
<210> 559	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 559	
ggtgcttctt acaggcaa	18
<210> 560	
<211> 16	
<212> DNA	
<213> Homo sapiens	

<400> 560 acccaggctg gtgtgt	16
<210> 561 <211> 23 <212> DNA <213> Homo sapiens	
<400> 561 actgagttaa ttatcactcc cct	23
<210> 562 <211> 18 <212> DNA <213> Homo sapiens	
<400> 562 gatgcatttt gcttcacc	18
<210> 563 <211> 21 <212> DNA <213> Homo sapiens	
<400> 563 tctgctttta gagctgtag c	21
<210> 564 <211> 19 <212> DNA <213> Homo sapiens	
<400> 564 tcaagcttca aagagcaga	19
<210> 565 <211> 18 <212> DNA <213> Homo sapiens	
<400> 565 ggagtacatc ccaggacc	18
<210> 566 <211> 19 <212> DNA <213> Homo sapiens	
<400> 566 tggtgctttt aaatccaga	19

<210> 567	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 567	
ctcccttact tacttgcat g	21
<210> 568	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 568	
tcttctccca gggaatct	18
<210> 569	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 569	
tttatgtccc ctgagcac	18
<210> 570	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 570	
tccctggcta tcttgaatc	19
<210> 571	
<211> 16	
<212> DNA	
<213> Homo sapiens	
<400> 571	
cttgactggg tccacg	16
<210> 572	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 572	
cgagacgccca gtagatacca	20
<210> 573	
<211> 20	
<212> DNA	

<213> Homo sapiens	
<400> 573	
catcctccat gcctttcagt	20
<210> 574	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 574	
agttccagag aacgagacgc	20
<210> 575	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 575	
cttgtcatcc tccatgcctt	20
<210> 576	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 576	
gagcgtgaga ggttgaggag	20
<210> 577	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 577	
aaacaaactc cagacgcacc	20
<210> 578	
<211> 24	
<212> DNA	
<213> Homo sapiens	
<400> 578	
ctgaaccact acctgtatga cctg	24
<210> 579	
<211> 25	
<212> DNA	
<213> Homo sapiens	
<400> 579	

ctaactactt actcctacag ggccc	25
<210> 580	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 580	
gaagcatttc aatactttaa ctg	23
<210> 581	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 581	
ccactccagt gcacccaatc	20
<210> 582	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 582	
cttctcctgg ccactctgac	20
<210> 583	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 583	
ggtttacctt tgaatcccag c	21
<210> 584	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 584	
tgaggatgaa tgagcacata gg	22
<210> 585	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 585	
tttgtggtcc attgagtagg c	21
<210> 586	

<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 586	
aggggaagga atgtgcttgg	20
<210> 587	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 587	
ttcggtgag cgggcagtgt	20
<210> 588	
<211> 26	
<212> DNA	
<213> Homo sapiens	
<400> 588	
attgaaggtc ctccaaaaga atgctg	26
<210> 589	
<211> 30	
<212> DNA	
<213> Homo sapiens	
<400> 589	
agaacgtcaa catatctttt tgggggacac	30
<210> 590	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 590	
ttgtatttga ggactttgct cg	22
<210> 591	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 591	
cggtaccatc ctcctcttcc	20
<210> 592	
<211> 20	
<212> DNA	
<213> Homo sapiens	

<400> 592	
tttttgccctc atctatgcc	20
<210> 593	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 593	
gggtgacaga gcaagactcc	20
<210> 594	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 594	
ttgctcaagt tctcctgg	18
<210> 595	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 595	
accttgTTTT gaggggag	18
<210> 596	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 596	
cttggctatt tggacagc	18
<210> 597	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 597	
gggcatttac tcacttgc	18
<210> 598	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 598	
cttgtgtcag ttgtcagg	19

<210> 599	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 599	
tggaattggt gtgtcttgg	19
<210> 600	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 600	
ccagttccac tggatggt	18
<210> 601	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 601	
atgggctgtg tttctcaa	18
<210> 602	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 602	
ctgcctatcc ctggactt	18
<210> 603	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 603	
agtttgtccc tagtgccc	18
<210> 604	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 604	
caacacgtct gacatccat	19
<210> 605	
<211> 16	
<212> DNA	

<213> Homo sapiens	
<400> 605	
ggatagtgca caccca	16
<210> 606	
<211> 22	
<212> DNA	
<213> Homo sapiens	
<400> 606	
tgggtggtac tattgttccc at	22
<210> 607	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 607	
agttccagcc cccttaccag	20
<210> 608	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 608	
ggccactatc atccctgtgt	20
<210> 609	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 609	
tttcacatgg gaagaacacg	20
<210> 610	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 610	
acagtgacac tagggacggg	20
<210> 611	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 611	

tgccaggatg gagataacaa	20
<210> 612	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 612	
cctgtggcac acatatcacc	20
<210> 613	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 613	
acaaccaaga atggagccac	20
<210> 614	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 614	
tgctgtgtaa caagtcccca	20
<210> 615	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 615	
tgaacggagg acctaccaag	20
<210> 616	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 616	
gcagggtccg actcactaag	20
<210> 617	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 617	
gctgtgagtt ccctttacgc	20
<210> 618	

<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 618	
acagtgggga caaagacagg	20
<210> 619	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 619	
tacagggcac ctcccagtag	20
<210> 620	
<211> 21	
<212> DNA	
<213> Homo sapiens	
<400> 620	
tcttctgtta aggtttcccc c	21
<210> 621	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 621	
tgtctcaaac ctccctctgc	20
<210> 622	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 622	
aacatatttc ctccccagcc	20
<210> 623	
<211> 19	
<212> DNA	
<213> Homo sapiens	
<400> 623	
cagtcccagc caatgagaa	19
<210> 624	
<211> 20	
<212> DNA	
<213> Homo sapiens	

<400> 624 ctcctctgca tgggagaatc	20
<210> 625 <211> 20 <212> DNA <213> Homo sapiens	
<400> 625 agacctggga ccagtctgtg	20
<210> 626 <211> 20 <212> DNA <213> Homo sapiens	
<400> 626 gggagacgac gtcacaagat	20
<210> 627 <211> 20 <212> DNA <213> Homo sapiens	
<400> 627 tgatgttggg aagatgggtga	20
<210> 628 <211> 20 <212> DNA <213> Homo sapiens	
<400> 628 caggcatctt ctatgtgcc	20
<210> 629 <211> 20 <212> DNA <213> Homo sapiens	
<400> 629 gggaggcaca agttctttca	20
<210> 630 <211> 20 <212> DNA <213> Homo sapiens	
<400> 630 acttcgtggc actgagtgtg	20

<210> 631	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 631	
cctttcttac ggatgaggca	20
<210> 632	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 632	
ggctgctgag ctcttctgat	20
<210> 633	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 633	
tgggtctctc tgcctgactt	20
<210> 634	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 634	
tcacctactt ccagcttccg	20
<210> 635	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 635	
agacctggga ccagtctgtg	20
<210> 636	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 636	
ctcctctgca tgggagaatc	20
<210> 637	
<211> 20	
<212> DNA	

<213> Homo sapiens	
<400> 637	
aattcaggag acctgggacc	20
<210> 638	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 638	
gtcttcacca cgggg	15
<210> 639	
<211> 11	
<212> DNA	
<213> Homo sapiens	
<400> 639	
gtggtgaaga c	11
<210> 640	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 640	
ccaagttctg agaagtcc	18
<210> 641	
<211> 17	
<212> DNA	
<213> Homo sapiens	
<400> 641	
aatacctgaa accatac	17